



ScyTek  
LABORATORIES

### **Our Commitment to the Customer**

We at ScyTek Laboratories, Inc. have committed ourselves to producing only the highest quality products for the laboratory market. Since the company was founded in 1991, ScyTek has continued to grow at a rapid rate as a result of our commitment to continuous improvement of each and every product line. In addition, aggressive pricing through vigilant cost containment and continuous improvements in efficiency combined with our commitment to quality have helped to foster strong customer bonds. While the majority of our business consists of producing custom reagents for the resale/OEM market, we still insist on providing only the highest quality service for those customers that use the product in their own laboratories.

Being a primary manufacturer allows ScyTek to continually identify areas that can be improved through the implementation of Kaizen and other manufacturing management techniques. Being a primary manufacturer also allows the customer to have maximum flexibility in the products specifications making ScyTek an ideal manufacturing partner. ScyTek has the ability to produce and vial products in various environmental conditions up to Class 1000. For our OEM customers, we have the capability of producing most any liquid or dry blend for the laboratory and can customize packaging to meet nearly any requirement. Whether the product is an off-the-shelf item, or one made specifically to meet the customer's needs, we are committed to delivering the product when expected and matching the anticipated specifications.

As the President of ScyTek Laboratories, Inc., I encourage you to contact me directly with any questions or comments regarding the performance of our company or our products.

Thank you, and we look forward to hearing from each and every customer in the following year.

Sincerely,

R. Michael Anderson  
President/CEO

## Ordering Information

Orders may be placed by telephone, telefax, e-mail, online or standard mail.

Mailing Address: ScyTek Laboratories, Inc.  
PO Box 3286  
Logan, Utah 84323-3286  
USA

Telephone: 800-729-8350  
435-755-9848

Fax: 435-755-0015

Web Site: [www.scytek.com](http://www.scytek.com)

Email: [scytek@scytek.com](mailto:scytek@scytek.com)

Terms: Terms of payment are "net 30 days" from invoice date, FOB shipping point. Accounts with balance unpaid beyond terms of "net 30 days" are subject to a service charge of one and one-half percent (1.5%) per month on the unpaid balance.

Prices: Many of the resale items in this catalog are available at prices significantly lower than found with other vendors. ScyTek's deep discount policy requires that pricing be subject to change without notice. No minimum order is required for shipments within the United States. Shipments outside of the United States can be no less than \$100.00.

Discounts: Bulk discounts are available on almost any product in this catalog.

Guarantee: ScyTek Laboratories, Inc. guarantees that products conform to labeled description or they will be replaced or refunded. Product liability is limited to refunds or replacements for the value of the product. Prior authorization is required for all returns or refunds.

Liability: Many products in this catalog consist of hazardous materials. It is entirely the users responsibility to assure safe handling and usage.

The products in this catalog are for laboratory use only and are not to be used for therapeutic purposes or in any pharmaceutical products. ScyTek Laboratories, Inc. does not in any way, recommend use of these products in violation of any patent or license. It is the responsibility of the user to determine the existence of such patents or licenses.

## Table of Contents

Enzyme Immunoassay (ELISA)	3
Diluents and Stabilizers	
Blocking Reagents	
Chromogens	
Buffers	
Immunohistochemistry	9
UltraTek	
SensiTek	
Polymer IHC	
Species Specific Reagents	
Blocking Reagents	
Chromogens	
Ancillary	
Slide Master	
Equipment IHC	
Antibodies	32
Monoclonal Ready-to-Use	
Monoclonal Concentrates	
Polyclonal Ready-to-Use	
Polyclonal Concentrates	
Multiplex Cocktail	
DNA Ploidy Analysis	148
Histology	149
Fixing Fluids	
Transport Media	
Nuclear Stains	
Cytoplasmic Stains	
Special Stains	
Slide Master	
Ancillary	
Cytology	175
Kits	
Individual Reagents	
Transport Media	
Ancillary	
Hematology	178
Kits	
Individual Reagents	
Ancillary	

Microbiology	180
Kits	
Individual Reagents	
Ancillary	
Buffers	184

# Enzyme Immunoassay

## Ancillary (ELISA)

### BRIJ 35 Solution (25-30%)

BRIJ 35 Solution is a nonionic polyoxyethylene surfactant used in a variety of protein methods. The reagent is an aqueous base containing 25-30% w/v proteomics grade BRIJ 35 making it optimal for use as a wetting agent in immunohistochemical reagents.

<u>Catalog Number</u>	<u>Volume</u>
BRJ500	500 ml
BRJ999	1000 ml

### Tween 20

Polyoxyethylenesorbitan Monolaurate - Tween 20.

<u>Catalog Number</u>	<u>Volume</u>
TWN500	500 ml
TWN999	1000 ml

### Water, Deionized/Distilled

Water for use in laboratory procedures has been deionized, distilled and filtered at 0.2 micrometer for critical assays.

<u>Catalog Number</u>	<u>Volume</u>
DDH999	1000 ml
DDH3800	1 Gal.
DDH-20000	20 L

## ELISA Kits

### Easy ELISA HRP Kit

Complete "Do it Yourself" ELISA system.

The first ELISA system designed to deliver superior results to each and every research project, regardless of the level of technician expertise. Everything that is required to obtain outstanding results is included in one convenient package. Easy ELISA has been specifically developed to create an environment in which the researcher can be assured of consistent results with each project. All of the reagents contained in Easy ELISA are stable enough to ship at ambient temperature.

Contents:

Super Block	125 ml
HRP Stabilizing Diluent	125 ml
Binding Buffer	125 ml
Coating Stabilizer	125 ml
TMB Soluble Reagent	125 ml
TMB Stop Buffer	125 ml
Sample Diluent	125 ml
Wash Buffer (10X PBS)	500 ml

<u>Catalog Number</u>	<u>Volume</u>
EEH-1	1 kit(s)

## Diluents and Stabilizers

### Alk-Phos Stabilizing Diluent

This reagent is formulated specifically for Alkaline Phosphatase conjugates. The product insures consistently high levels of activity for both the enzyme and the antibody following long-term storage at final dilution. This product has been chemically engineered to increase conjugate stability providing the customer a longer shelf life, resistance to various shipping conditions and storage temperatures. Alk-Phos Stabilizing Diluent is filtered at 0.2 um and reinforced with a non-mercury or azide-free preservative. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
APD500	500 ml
APD999	1000 ml

### Coating Stabilizer

Coating Stabilizer has been developed specifically for the stabilization of adsorbed or immobilized proteins on microwell plates/strips. Coating Stabilizer maintains the conformation and activity of the antibody or protein antigen portion of the dried immunoassay components. Product is filtered at 0.2 microns.

Contents: Aqueous, protein-containing stabilizer and blocking solution in phosphate buffer for dried protein components in immunoassays.

Preservative: 0.02% Bromonitrodioxane, 0.02% 2-Methyl-4-isothiazolin-3-one.

pH 7.2 - 7.7

<u>Catalog Number</u>	<u>Volume</u>
CSB125	125 ml
CSB500	500 ml
CSB999	1000 ml

### ELISA Sample Diluent

This reagent is formulated for use as a sample diluent to ensure that the analyte is measured accurately. It is used to dilute the sample within the assay target range.

<u>Catalog Number</u>	<u>Volume</u>
ESD125	125 ml
ESD500	500 ml
ESD999	1000 ml

### Enzyme Label Diluent

Provided as a ready-to-use diluent for enzyme labeled antibodies and streptavidin/avidin enzyme conjugates. Diluted reagents can be stored at 2-8 deg. C for up to 18 months at immunohistochemical dilutions. This reagent is subjected to 0.2 micron filtration.

<u>Catalog Number</u>	<u>Volume</u>
ABI500	500 ml
ABI999	1000 ml

**HRP Stabilizing Diluent (MOPS Buffered)**

HRP Stabilizing Diluent (MOPS Buffered) has been developed specifically for the stabilization of Horseradish Peroxidase conjugates in solution. HRP Stabilizer prevents the loss of catalytic activity and maintains the conformation of the antibody or protein antigen portion of the conjugate. Product is filtered at 0.2 microns.

Contents: Aqueous, protein-containing diluent and stabilizer for Horseradish Peroxidase conjugates.

Preservative: 0.02% Bromonitrodioxane, 0.02% 2-Methyl-4-isothiazolin-3-one, 0.005% Proclin 300 (Proclin is a registered trademark of Rohm & Haas Company), and 0.0008% Neomycin.

<u>Catalog Number</u>	<u>Volume</u>
HSM125	125 ml
HSM500	500 ml
HSM999	1000 ml

**HRP Stabilizing Diluent (Phosphate Buffered)**

This product has been developed to significantly increase the shelf life of diluted peroxidase labeled proteins. Stability is increased at room temperature storage conditions in addition to 2-8 centigrade. This product is subjected to 0.45 micron filtration, and contains no mercury or azide. This formulation insures consistently high levels of activity for both the enzyme and the antibody following long-term storage at final-use dilution. HRP Stabilizer greatly improves the signal to noise ratios which increases the immunoassay sensitivity and offers cleaner assays. This product has been chemically engineered to increase conjugate stability providing the customer a longer shelf life, resistance to various shipping conditions & storage temperatures and improved day to day assay precision.

This product is recommended to be used in conjunction with ScyTek's proprietary Coating Stabilizer, Blocking Buffer (Super Block), Washing solution, TMB and Stopping Solution. All of the ELISA products are available in bulk quantities, including custom lot sizes up to 5000 liters. ScyTek Laboratories, Inc. specializes in custom manufacturing, vialing, labeling and packaging. Call today for a quote 800-729-8350.

<u>Catalog Number</u>	<u>Volume</u>
HSB500	500 ml
HSB999	1000 ml

**Normal Antibody Diluent (Phosphate Buffered)**

Provided as a ready-to-use diluent for primary antibodies and link/secondary antibodies. In most cases, antibodies diluted in this reagent can be stored at 4-8 deg. C for up to 18 months. Diluent is subjected to 0.2 micron filtration.

<u>Catalog Number</u>	<u>Volume</u>
ABB125	125 ml
ABB500	500 ml
ABB999	1000 ml

**Normal Antibody Diluent (Phosphate Buffered) without BSA**

Provided as a ready-to-use diluent for primary antibodies and link/secondary antibodies. Diluent is subjected to 0.2 micron filtration. For longterm storage of diluted antibodies, a carrier protein should be added.

<u>Catalog Number</u>	<u>Volume</u>
ABD999	1000 ml

**Normal Antibody Diluent (Tris Buffered)**

Provided as a ready-to-use diluent for primary antibodies and link/secondary antibodies. In most cases, antibodies diluted in this reagent can be stored at 4-8 deg. C for up to 18 months. Diluent is subjected to 0.2 micron filtration.

<u>Catalog Number</u>	<u>Volume</u>
ADT125	125 ml
ADT500	500 ml
ADT999	1000 ml

**Blocking Reagents (ELISA)****Coating Stabilizer**

Coating Stabilizer has been developed specifically for the stabilization of adsorbed or immobilized proteins on microwell plates/strips. Coating Stabilizer maintains the conformation and activity of the antibody or protein antigen portion of the dried immunoassay components. Product is filtered at 0.2 microns.

Contents: Aqueous, protein-containing stabilizer and blocking solution in phosphate buffer for dried protein components in immunoassays.

Preservative: 0.02% Bromonitrodioxane, 0.02% 2-Methyl-4-isothiazolin-3-one.

pH 7.2 - 7.7

<u>Catalog Number</u>	<u>Volume</u>
CSB125	125 ml
CSB500	500 ml
CSB999	1000 ml

**EZ Block**

EZ Block has been developed to use with immunolabeling techniques for the reduction of nonspecific background staining, and simultaneously reducing the handling of animal serums in the laboratory. The need to match species with the secondary antibody is eliminated due to the lack of normal serum in this product. EZ Block has been shown to be effective for immunohistochemical, ELISA, blot and In-situ techniques and requires no mixing or diluting.

<u>Catalog Number</u>	<u>Volume</u>
EZB125	125 ml
EZB500	500 ml
EZB999	1000 ml

### Pro-Block

Is a unique serum-free protein block for immunochemistry. Pro-Block eliminates the need for matching species with the link antibody and is often, more effective at reducing non-specific background staining than normal serum.

Pro-Block is similar to Super Block, but without casein. The reagent is filtered at 0.2 microns.

<u>Catalog Number</u>	<u>Volume</u>
PBK125	125 ml
PBK500	500 ml
PBK999	1000 ml
PBK010	10 L
PBK-20000	20 L

### Super Block

Is a unique serum-free protein block for immunochemistry. Super Block eliminates the need for matching species with the link antibody and is often, more effective at reducing non-specific background staining than normal serum. This product is currently being used in a variety of applications including, Immunohistochemistry, ELISA plate blocking, and blotting. For OEM customers, this product can be modified to meet individual assay needs. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
AAA125	125 ml
AAA500	500 ml
AAA999	1000 ml

## Chromogens (ELISA)

### Soluble

#### ABTS Soluble Reagent (Aqueous)

ABTS Soluble Reagent (Aqueous), 2,2'-Azinodi(3-Ethyl Benzthiazoline Sulfonic Acid) is a commonly used chromogen for the detection of Horseradish peroxidase in enzyme immunoassays (ELISA). This single component, produces a soluble blue-green reaction product that is measured at 405 nm. This product requires no mixing prior to use, and has a shelf life of 18 months when stored at 4 - 8 deg. Centigrade.

<u>Catalog Number</u>	<u>Volume</u>
ABT125	125 ml
ABT500	500 ml
ABT999	1000 ml

#### TMB Soluble Reagent (High Sensitivity)

TMB - This high sensitivity liquid substrate for peroxidase consists of Tetramethylbenzidine (TMB) plus dilute hydrogen peroxide in a single-reagent stabilized form. The reagent has been specifically formulated for measuring peroxidase in ELISA systems which is stable for long-term storage providing sensitivity greater than OPD. This reagent is available as a single component, ready-to-use reagent. When used in conjunction with our proprietary TMB Stop Buffer (TSB), the resulting color product will not fade or darken for several hours. Our TMB products have been in production for over twenty years and have built a reputation for robust performance, unparalleled stability and next to zero lot-to-lot variation. Each TMB formulation can be specifically engineered to meet the needs of your specific assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
TM4125	125 ml
TM4500	500 ml
TM4999	1000 ml
TM4010	10 L

#### TMB Soluble Reagent (Standard Sensitivity)

TMB - This standard sensitivity liquid substrate for peroxidase consists of Tetramethylbenzidine (TMB) plus dilute hydrogen peroxide in a single-reagent stabilized form. The reagent has been specifically formulated for measuring peroxidase in ELISA systems which is stable for long-term storage providing sensitivity greater than OPD. This reagent is available as a single component, ready-to-use reagent. When used in conjunction with our proprietary TMB Stop Buffer (TSB), the resulting color product will not fade or darken for several hours. Our TMB products have been in production for over twenty years and have built a reputation for robust performance, unparalleled stability and next to zero lot-to-lot variation. Each TMB formulation can be specifically engineered to meet the needs of your specific assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
TM1125	125 ml
TM1500	500 ml
TM1999	1000 ml

#### TMB Stop Buffer

ScyTek's Stop Buffer (TSB) offers a unique combination of acid that produces a more stable stopped reaction product than other formulations of H<sub>2</sub>SO<sub>4</sub> or HCL. Stopped reactions show increased absorbance values of approximately two-fold over unstopped reactions with minimal drift for up to six hours depending on various conditions. This reagent can be customized to meet each customers specific needs. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
TSB125	125 ml
TSB500	500 ml
TSB999	1000 ml



## Precipitating

### AEC Chromogen/Substrate Bulk Kit

3-Amino-9-Ethylcarbazole (AEC) is a widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of peroxidase enzyme, AEC produces a vivid red end product that is soluble in alcohol and must be used with an aqueous counterstain and mounting media. This product is available in a two component form consisting of a liquid, refrigerator stable AEC Chromogen and AEC Substrate. Each component is individually stable for 18 months from the date of manufacture.

<u>Catalog Number</u>	<u>Volume</u>
ACJ500	515 ml
ACJ999	1030 ml

### Alk-Phos Blue Kit

Alk-Phos Blue is a chromogen for immunohistochemical staining and immunoblotting. When in the presence of alkaline phosphatase enzyme, Alk-Phos Blue produces a bright blue precipitate that may be permanently mounted with minimal loss of intensity.

<u>Catalog Number</u>	<u>Volume</u>
APB-60	64 ml

### BCIP/INT Solution

5-Bromo-4-Chloro-3-IndolylPhosphate/p-Iodonitrotetrazolium (BCIP/INT) Solution

Is a chromogen used in immunohistochemical and in-situ staining. This reagent is available as a single component, ready-to-use reagent. When in the presence of the Alkaline-Phosphatase enzyme, BCIP/INT produces a brown precipitate that is soluble in alcohol.

<u>Catalog Number</u>	<u>Volume</u>
ACL125	125 ml
ACL500	500 ml
ACL999	1000 ml

### BCIP/NBT Solution

5-Bromo-4-Chloro-3-Indolyl Phosphate/nitroblue Tetrazolium (BCIP/NBT) Solution

Is a widely used chromogen for immunohistochemical and in-situ staining. This reagent is available as a single component, ready-to-use reagent. When in the presence of the Alkaline-Phosphatase enzyme, BCIP/NBT produces a purple precipitate that is soluble in alcohol.

<u>Catalog Number</u>	<u>Volume</u>
ACN125	125 ml
ACN500	500 ml
ACN999	1000 ml

### DAB Chromogen/Substrate Bulk pack

3,3'-Diaminobenzidine (DAB) Ready-to-Use

Is a widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of the peroxidase enzyme, DAB produces a brown precipitate that is insoluble in alcohol. Stained slides may be mounted in any commercially available permanent mounting media. This product is available in a convenient two component form.

<u>Catalog Number</u>	<u>Volume</u>
ACK500	530 ml
ACK999	1060 ml

### DAB Chromogen/Substrate Bulk Pack (High Contrast)

This product has been developed for applications that require high contrast between the chromogen and Hematoxylin counterstain. The resulting stain is a darker brown than standard DAB and somewhat more sensitive. 3,3'-Diaminobenzidine (DAB) is a widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of peroxidase enzyme, DAB produces a brown precipitate that is insoluble in alcohol. This product is available in a two component form consisting of a liquid, refrigerator stable DAB Chromogen and DAB Substrate (High Contrast). The use of liquid components reduces some risks associated with handling powders (ie. dust inhalation), and eliminates waste which often results from using tablets that require a predetermined final volume.

<u>Catalog Number</u>	<u>Volume</u>
ACV500	530 ml
ACV999	1060 ml

### New Fuchsin Kit

This is a chromogen for immunohistochemical staining and immunoblotting. When in the presence of alkaline phosphatase enzyme, New Fuchsin produces an intense red/fuchsia precipitate that may be permanently mounted.

Pack Includes:

64 ml 60ml Buffer  
2ml New Fuchsin Concentrate  
2ml Activator

430 ml 400ml Buffer  
15ml New Fuchsin  
15ml Activator

4,250 ml 4,000ml Buffer  
125ml New Fuchsin  
125ml Activator

<u>Catalog Number</u>	<u>Volume</u>
NF0001	64 ml
NF0002	430 ml

**TMB Precipitating (High Sensitivity)**

This liquid substrate for peroxidase consists of tetramethylbenzidine (TMB) plus dilute hydrogen peroxide in a single-reagent stabilized form. The reagent has been specifically formulated for measuring peroxidase on membranes and other surfaces and is not intended for use in microwell applications. This reagent is stable for long-term storage, and provides sensitivity equal to, or greater than, that of other commercially available chromogens.

<u>Catalog Number</u>	<u>Volume</u>
TM5125	125 ml
TM5500	500 ml
TM5999	1000 ml

**TMB Precipitating (Standard Sensitivity)**

This liquid substrate for peroxidase consists of tetramethylbenzidine (TMB) plus dilute hydrogen peroxide in a single-reagent stabilized form. The reagent has been specifically formulated for measuring peroxidase on membranes and other surfaces and is not intended for use in microwell applications. This reagent is stable for long-term storage, and provides sensitivity equal to, or greater than, that of other commercially available chromogens.

<u>Catalog Number</u>	<u>Volume</u>
TM3125	125 ml
TM3500	500 ml
TM3999	1000 ml

**TMB Precipitating Reagent (For Membranes)**

This liquid substrate for peroxidase consists of tetramethylbenzidine (TMB) plus dilute hydrogen peroxide in an aqueous single-reagent stabilized form. The reagent has been specifically formulated for measuring peroxidase on membranes and other surfaces. When reacted with peroxidase, the result is an insoluble blue reaction product. This reagent is not designed for use in microwell applications.

<u>Catalog Number</u>	<u>Volume</u>
TMP125	125 ml
TMP500	500 ml
TMP999	1000 ml

**Buffers****ELISA Binding Buffer**

Formulated to maximize the adsorption efficiency of antibodies and antigens onto polystyrene plate surfaces. This reagent is ready-to-use and requires no modification prior to use.

<u>Catalog Number</u>	<u>Volume</u>
EBB125	125 ml
EBB500	500 ml
EBB999	1000 ml

**Phosphate Buffered Saline (10x) pH 7.4**

ScyTek Phosphate Buffered Saline (10x) pH 7.4 is an optimal formulation of pH stabilizers and salts designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
PBD500	500 ml
PBD999	1000 ml
PBD010	10 L
PBD-20000	20 L

**Phosphate Buffered Saline (25x) pH 7.6**

ScyTek Phosphate Buffered Saline (25x) pH of 7.6 is an optimal formulation of pH stabilizers and salts designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
PBS125	125 ml
PBS500	500 ml
PBS999	1000 ml
PBS010	10 L
PBS-20000	20 L

### Phosphate Buffered Saline plus Tween 20 (10x) pH 7.4

ScyTek Phosphate Buffered Saline + Tween 20 (10x) pH of 7.4 is an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
PBE500	500 ml
PBE999	1000 ml
PBE010	10 L
PBE-20000	20 L

### Phosphate Buffered Saline plus Tween 20 (20x) pH 7.6

ScyTek Wash buffer formulations are an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
PBT500	500 ml
PBT999	1000 ml
PBT010	10 L
PBT-20000	20 L

### Tris Buffered Saline (10x) pH 7.5

ScyTek Tris Buffered Saline (10x) pH of 7.5 is an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
TBD500	500 ml
TBD999	1000 ml
TBD010	10 L
TBD-20000	20 L

### Tris Buffered Saline (25x) pH 7.4

ScyTek Tris Buffered Saline (25x) pH of 7.4 is an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
TBS500	500 ml
TBS999	1000 ml
TBS010	10 L
TBS-20000	20 L

### Tris Buffered Saline plus Tween 20 (10x) pH 7.5

ScyTek Tris Buffered Saline + Tween 20 (10x) pH of 7.5 is an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
TBE500	500 ml
TBE999	1000 ml
TBE010	10 L
TBE-20000	20 L

### Tris Buffered Saline plus Tween 20 (20x Concentrate) pH 7.4

ScyTek Tris Buffered Saline + Tween 20 (20x Concentrate) pH of 7.4 is an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the tissue sample or microtiter plate wells without disrupting the antibody binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application.

<u>Catalog Number</u>	<u>Volume</u>
TBT500	500 ml
TBT999	1000 ml
TBT010	10 L
TBT-20000	20 L

# Immunohistochemistry

## UltraTek

### UltraTek Kits

#### UltraTek HRP

##### Retrieval HRP Anti-Polyvalent Lab Pack

The Retrieval Lab Pack is the optimal kit for the retrieval process. It is designed to provide crisp staining with incubation times of 10 minutes for the Link Antibody and Enzyme Label. The antibodies have been highly purified and specially formulated to assure crisp, clear staining when used in conjunction with each other.

<u>Catalog Number</u>	<u>Volume</u>
RLP015	150 Slides
RLP125	1250 Slides
RLP500	5000 Slides
RLP999	10000 Slides

##### UltraTek HRP Anti-Mouse (AEC) Staining System

Contains: 1 x 8ml Peroxide Block  
1 x 8ml Super Block  
1 x 8ml Anti-Mouse  
1 x 8ml HRP  
1 x 3ml AEC Chromogen  
7 x 5ml AEC Substrate

<u>Catalog Number</u>	<u>Volume</u>
AKB080	70 Slides

##### UltraTek HRP Anti-Mouse (DAB) Staining System

Contains: 1 x 8ml Peroxide Block  
1 x 8ml Super Block  
1 x 8ml Anti-Mouse  
1 x 8ml HRP  
1 x 3ml DAB Chromogen  
7 x 5ml DAB Substrate

<u>Catalog Number</u>	<u>Volume</u>
AKA080	70 Slides

##### UltraTek HRP Anti-Mouse Lab Pack

Contains: One container of Super Block.  
One container of Anti-Mouse.  
One container of HRP.

<u>Catalog Number</u>	<u>Volume</u>
UHM125	1250 Slides
UHM500	5000 Slides
UHM999	10000 Slides

## Immunohistochemistry

##### UltraTek HRP Anti-Mouse Staining System

Contains: 4 x 15ml Super Block  
4 x 15ml Anti-Mouse  
4 x 15ml HRP

<u>Catalog Number</u>	<u>Volume</u>
AFJ600	500 Slides

##### UltraTek HRP Anti-Polyvalent (AEC) Staining System

Contains: 1 x 8ml Peroxide Block  
1 x 8ml Super Block  
1 x 8ml Anti-Polyvalent  
1 x 8ml HRP  
1 x 3ml AEC Chromogen  
7 x 5ml AEC Substrate

<u>Catalog Number</u>	<u>Volume</u>
AMG080	70 Slides

##### UltraTek HRP Anti-Polyvalent (DAB) Staining System

Contains: 1 x 8ml Peroxide Block  
1 x 8ml Super Block  
1 x 8ml Anti-Polyvalent  
1 x 8ml HRP  
1 x 3ml DAB Chromogen  
7 x 5ml DAB Substrate

<u>Catalog Number</u>	<u>Volume</u>
AMF080	70 Slides

##### UltraTek HRP Anti-Polyvalent Lab Pack

The UltraTek staining kit provides unmatched sensitivity with incubation times of 10 minutes each for the Link Antibody and Enzyme Label. The bulk kits are ideal for high volume laboratories. Each Pack contains one bottle of Super Block (universal protein block), one bottle of Biotinylated Antibody (Polyvalent), and one bottle of Horseradish Peroxidase Labeled Streptavidin. Each bottle contains 125, 500, or 1000ml of reagent. These Lab-Packs provide an extremely economical alternative for automated staining systems and we encourage you to evaluate the addition of this in your current system.

Contains: One container of Super Block.  
One container of Antipolyvalent.  
One container of HRP.

<u>Catalog Number</u>	<u>Volume</u>
UHP125	1250 Slides
UHP500	5000 Slides
UHP999	10000 Slides

##### UltraTek HRP Anti-Polyvalent Staining System

Contains: 4 x 15ml Super Block  
4 x 15ml Anti-Polyvalent  
4 x 15ml HRP

<u>Catalog Number</u>	<u>Volume</u>
AFN600	500 Slides

**UltraTek HRP Anti-Rabbit (AEC) Staining System**

Contains: 1 x 8ml Peroxide Block  
 1 x 8ml Super Block  
 1 x 8ml Anti-Rabbit  
 1 x 8ml HRP  
 1 x 3ml AEC Chromogen  
 7 x 5ml AEC Substrate

<u>Catalog Number</u>	<u>Volume</u>
AKD080	70 Slides

**UltraTek HRP Anti-Rabbit (DAB) Staining System**

Contains: 1 x 8ml Peroxide Block  
 1 x 8ml Super Block  
 1 x 8ml Anti-Rabbit  
 1 x 8ml HRP  
 1 x 3ml DAB Chromogen  
 7 x 5ml DAB Substrate

<u>Catalog Number</u>	<u>Volume</u>
AKC080	70 Slides

**UltraTek HRP Anti-Rabbit Lab Pack**

The UltraTek staining kit provides unmatched sensitivity with incubation times of 10 minutes each for the Link Antibody and Enzyme Label. The bulk kits are ideal for high volume laboratories. Each Pack contains one bottle of Super Block (universal protein block), one bottle of Biotinylated Anti-Rabbit, and one bottle of Horseradish Peroxidase Labeled Streptavidin. Each bottle contains 125, 500, or 1000ml of reagent. These Lab-Packs provide an extremely economical alternative for automated staining systems and we encourage you to evaluate the addition of this in your current system.

Contains: One container of Super Block.  
 One container of Anti-Rabbit.  
 One container of HRP.

<u>Catalog Number</u>	<u>Volume</u>
UHR125	1250 Slides
UHR500	5000 Slides
UHR999	10000 Slides

**UltraTek HRP Anti-Rabbit Staining System**

Contains: 4 x 15ml Super Block  
 4 x 15ml Anti-Rabbit  
 4 x 15ml HRP

<u>Catalog Number</u>	<u>Volume</u>
AFK600	500 Slides

**UltraTek Alk-Phos****UltraTek Alk-Phos Anti-Mouse (Permanent Red) Staining System**

The UltraTek staining kit provides unmatched sensitivity with incubation times of 10 minutes each for the Link Antibody and Enzyme Label. This kit includes our Permanent Red chromogen, which can be coverslipped with solvent based mounting media for long term storage.

Contains: 1 x 8ml Super Block  
 1 x 8ml Anti-Mouse  
 1 x 8ml Alk-Phos  
 1 x 2ml Permanent Red Concentrate  
 8 x 5ml Permanent Red Buffer

<u>Catalog Number</u>	<u>Volume</u>
AET080	70 Slides

**UltraTek Alk-Phos Anti-Mouse Lab Pack**

Contains: One container of Super Block.  
 One container of Anti-Mouse.  
 One container of Alk-Phos.

<u>Catalog Number</u>	<u>Volume</u>
UAM125	1250 Slides
UAM500	5000 Slides
UAM999	10000 Slides

**UltraTek Alk-Phos Anti-Mouse Staining System**

Contains: 4 x 15ml Super Block  
 4 x 15ml Anti-Mouse  
 4 x 15ml Alk-Phos

<u>Catalog Number</u>	<u>Volume</u>
AFL600	500 Slides

**UltraTek Alk-Phos Anti-Polyvalent (Permanent Red) Staining System**

The UltraTek staining kit provides unmatched sensitivity with incubation times of 10 minutes each for the Link Antibody and Enzyme Label. This kit includes our Permanent Red chromogen, which can be coverslipped with solvent based mounting media for long term storage.

Contains: 1 x 8ml Super Block  
 1 x 8ml Anti-Polyvalent  
 1 x 8ml Alk-Phos  
 1 x 2ml Permanent Red Concentrate  
 8 x 5ml Permanent Red Buffer

<u>Catalog Number</u>	<u>Volume</u>
AMH080	70 Slides

**UltraTek Alk-Phos Anti-Polyvalent Lab Pack**

Contains: One container of Super Block.  
 One container of Anti-Polyvalent.  
 One container of Alk-Phos.

<u>Catalog Number</u>	<u>Volume</u>
UAP125	1250 Slides
UAP500	5000 Slides
UAP999	10000 Slides

**UltraTek Alk-Phos Anti-Polyvalent Staining System**

Contains: 4 x 15ml Super Block  
 4 x 15ml Anti-Polyvalent  
 4 x 15ml Alk-Phos

<u>Catalog Number</u>	<u>Volume</u>
AFP600	500 Slides

**UltraTek Alk-Phos Anti-Rabbit (Permanent Red) Staining System**

The UltraTek staining kit provides unmatched sensitivity with incubation times of 10 minutes each for the Link Antibody and Enzyme Label. This kit includes our Permanent Red chromogen, which can be coverslipped with solvent based mounting media for long term storage.

Contains: 1 x 8ml Super Block  
 1 x 8ml Anti-Rabbit  
 1 x 8ml Alk-Phos  
 1 x 2ml Permanent Red Concentrate  
 8 x 5ml Permanent Red Buffer

<u>Catalog Number</u>	<u>Volume</u>
AME080	70 Slides

**UltraTek Alk-Phos Anti-Rabbit Lab Pack**

Contains: One container of Super Block.  
 One container of Anti-Rabbit.  
 One container of Alk-Phos.

<u>Catalog Number</u>	<u>Volume</u>
UAR125	1250 Slides
UAR500	5000 Slides
UAR999	10000 Slides

**UltraTek Alk-Phos Anti-Rabbit Staining System**

Contains: 4 x 15ml Super Block  
 4 x 15ml Anti-Rabbit  
 4 x 15ml Alk-Phos

<u>Catalog Number</u>	<u>Volume</u>
AFM600	500 Slides

**UltraTek Individual Reagents****Super Block**

Is a unique serum-free protein block for immunochemistry. Super Block eliminates the need for matching species with the link antibody and is often, more effective at reducing non-specific background staining than normal serum. This product is currently being used in a variety of applications including, Immunohistochemistry, ELISA plate blocking, and blotting. For OEM customers, this product can be modified to meet individual assay needs. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
AAA125	125 ml
AAA500	500 ml
AAA999	1000 ml

**UltraTek Alkaline Phosphatase**

The UltraTek line is our leading edge system, designed to provide optimal staining with incubation times of 10 minutes each for the link antibody and enzyme label. For most procedures, commercially available primary antibodies can be diluted up to 50% further than with other systems.

<u>Catalog Number</u>	<u>Volume</u>
ABM008	8 ml
ABM015	15 ml
ABM125	125 ml
ABM500	500 ml
ABM999	1000 ml

**UltraTek Anti-Goat**

The UltraTek line is our leading edge system, designed to provide optimal staining with incubation times of 10 minutes each for the link antibody and enzyme label. For most procedures, commercially available primary antibodies can be diluted up to 50% further than with other systems.

<u>Catalog Number</u>	<u>Volume</u>
AGL008	8 ml
AGL015	15 ml
AGL125	125 ml
AGL250	250 ml

**UltraTek Anti-Mouse**

The UltraTek line is our leading edge system, designed to provide optimal staining with incubation times of 10 minutes each for the link antibody and enzyme label. For most procedures, commercially available primary antibodies can be diluted up to 50% further than with other systems.

<u>Catalog Number</u>	<u>Volume</u>
ABJ008	8 ml
ABJ015	15 ml
ABJ125	125 ml
ABJ500	500 ml
ABJ999	1000 ml

**UltraTek Anti-Polyvalent**

The UltraTek line is our leading edge system, designed to provide optimal staining with incubation times of 10 minutes each for the link antibody and enzyme label. For most procedures, commercially available primary antibodies can be diluted up to 50% further than with other systems.

<u>Catalog Number</u>	<u>Volume</u>
ABN008	8 ml
ABN015	15 ml
ABN125	125 ml
ABN500	500 ml
ABN999	1000 ml

**UltraTek Anti-Rabbit**

The UltraTek line is our leading edge system, designed to provide optimal staining with incubation times of 10 minutes each for the link antibody and enzyme label. For most procedures, commercially available primary antibodies can be diluted up to 50% further than with other systems.

<u>Catalog Number</u>	<u>Volume</u>
ABK008	8 ml
ABK015	15 ml
ABK125	125 ml
ABK500	500 ml
ABK999	1000 ml

**UltraTek Horseradish Peroxidase**

The UltraTek line is our leading edge system, designed to provide optimal staining with incubation times of 10 minutes each for the link antibody and enzyme label. For most procedures, commercially available primary antibodies can be diluted up to 50% further than with other systems.

<u>Catalog Number</u>	<u>Volume</u>
ABL008	8 ml
ABL015	15 ml
ABL125	125 ml
ABL500	500 ml
ABL999	1000 ml

**SensiTek****SensiTek Kits****SensiTek HRP****SensiTek HRP Anti-Mouse (AEC) Staining System**

Contains: 1 x 8ml Peroxide Block  
 1 x 8ml Super Block  
 1 x 8ml Anti-Mouse  
 1 x 8ml HRP  
 1 x 3ml AEC Chromogen  
 7 x 5ml AEC Substrate

<u>Catalog Number</u>	<u>Volume</u>
AEB080	70 Slides

**SensiTek HRP Anti-Mouse (DAB) Staining System**

Contains: 1 x 8ml Peroxide Block  
 1 x 8ml Super Block  
 1 x 8ml Anti-Mouse  
 1 x 8ml HRP  
 1 x 3ml DAB Chromogen  
 7 x 5ml DAB Substrate

<u>Catalog Number</u>	<u>Volume</u>
AEA080	70 Slides

**SensiTek HRP Anti-Mouse Lab Pack**

Contains: One container of Super Block  
 One container of Anti-Mouse  
 One container of HRP

<u>Catalog Number</u>	<u>Volume</u>
SHM125	1250 Slides
SHM500	5000 Slides
SHM999	10000 Slides

**SensiTek HRP Anti-Mouse Staining System**

Contains: 4 x 15ml Super Block  
 4 x 15ml Anti-Mouse  
 4 x 15ml Alk-Phos

<u>Catalog Number</u>	<u>Volume</u>
AFA600	500 Slides

**SensiTek HRP Anti-Polyvalent (AEC) Staining System**

Contains: 1 x 8ml Peroxide Block  
 1 x 8ml Super Block  
 1 x 8ml Anti-Polyvalent  
 1 x 8ml HRP  
 1 x 3ml AEC Chromogen  
 7 x 5ml AEC Substrate

<u>Catalog Number</u>	<u>Volume</u>
AEN080	70 Slides

**SensiTek HRP Anti-Polyvalent (DAB) Staining System**

Contains: 1 x 8ml Peroxide Block  
 1 x 8ml Super Block  
 1 x 8ml Anti-Polyvalent  
 1 x 8ml HRP  
 1 x 3ml DAB Chromogen  
 7 x 5ml DAB Substrate

<u>Catalog Number</u>	<u>Volume</u>
AEM080	70 Slides

**SensiTek HRP Anti-Polyvalent Lab Pack**

Contains: One container of Super Block  
 One container of Anti-Polyvalent  
 One container of HRP

<u>Catalog Number</u>	<u>Volume</u>
SHP125	1250 Slides
SHP500	5000 Slides
SHP999	10000 Slides

**SensiTek HRP Anti-Polyvalent Staining System**

Contains: 4 x 15ml Super Block  
 4 x 15ml Anti-Polyvalent  
 4 x 15ml HRP

<u>Catalog Number</u>	<u>Volume</u>
AFG600	500 Slides



**SensiTek HRP Anti-Rabbit (AEC) Staining System**

Contains: 1 x 8ml Peroxide Block  
 1 x 8ml Super Block  
 1 x 8ml Anti-Rabbit  
 1 x 8ml HRP  
 1 x 3ml AEC Chromogen  
 7 x 5ml AEC Substrate

Catalog Number	Volume
AEJ080	70 Slides

**SensiTek HRP Anti-Rabbit (DAB) Staining System**

Contains: 1 x 8ml Peroxide Block  
 1 x 8ml Super Block  
 1 x 8ml Anti-Rabbit  
 1 x 8ml HRP  
 1 x 3ml DAB Chromogen  
 7 x 5ml DAB Substrate

Catalog Number	Volume
AEI080	70 Slides

**SensiTek HRP Anti-Rabbit Lab Pack**

Contains: One container of Super Block  
 One container of Anti-Rabbit  
 One container of HRP

Catalog Number	Volume
SHR125	1250 Slides
SHR500	5000 Slides
SHR999	10000 Slides

**SensiTek HRP Anti-Rabbit Staining System**

Contains: 4 x 15ml Super Block  
 4 x 15ml Anti-Rabbit  
 4 x 15ml HRP

Catalog Number	Volume
AFE600	500 Slides

**SensiTek Alk-Phos****SensiTek Alk-Phos Anti-Mouse (Fast Red) Staining System**

Contains: 1 x 8ml Super Block  
 1 x 8ml Anti-Mouse  
 1 x 8ml Alk-Phos  
 8 Fast-Red Tablets  
 8 x 5ml Naphthol Phosphate Buffer

Catalog Number	Volume
AEC080	70 Slides

**SensiTek Alk-Phos Anti-Mouse Lab Pack**

Contains: One container of Super Block  
 One container of Anti-Mouse  
 One container of Alk-Phos.

Catalog Number	Volume
SAM125	1250 Slides
SAM500	5000 Slides
SAM999	10000 Slides

**SensiTek Alk-Phos Anti-Mouse Staining System**

Contains: 4 x 15ml Super Block  
 4 x 15ml Anti-Mouse  
 4 x 15ml Alk-Phos

Catalog Number	Volume
AFB600	500 Slides

**SensiTek Alk-Phos Anti-Polyvalent (Permanent Red) Staining System**

The SensiTek staining kit provides unmatched sensitivity with incubation times of 20 minutes each for the Link Antibody and Enzyme Label. This kit includes our Permanent Red chromogen, which can be coverslipped with solvent based mounting media for long term storage.

Contains: 1 x 8ml Super Block  
 1 x 8ml Anti-Polyvalent  
 1 x 8ml Alk-Phos  
 1 x 2ml Permanent Red Concentrate  
 8 x 5ml Permanent Red Buffer

Catalog Number	Volume
AES080	70 Slides

**SensiTek Alk-Phos Anti-Polyvalent Lab Pack**

Contains: One container of Super Block  
 One container of Anti-Polyvalent  
 One container of Alk-Phos.

Catalog Number	Volume
SAP125	1250 Slides
SAP500	5000 Slides
SAP999	10000 Slides

**SensiTek Alk-Phos Anti-Polyvalent Staining System**

Contains: 4 x 15ml Super Block  
 4 x 15ml Anti-Polyvalent  
 4 x 15ml Alk-Phos

Catalog Number	Volume
AFH600	500 Slides

**SensiTek Alk-Phos Anti-Rabbit (Fast Red) Staining System**

Contains: 1 x 8ml Super Block  
 1 x 8ml Anti-Rabbit  
 1 x 8ml Alk-Phos  
 8 Fast-Red Tablets  
 8 x 5ml Naphthol Phosphate Buffer

Catalog Number	Volume
AEK080	70 Slides

**SensiTek Alk-Phos Anti-Rabbit Lab Pack**

Contains: One container of Super Block  
 One container of Anti-Rabbit  
 One container of Alk-Phos.

Catalog Number	Volume
SAR125	1250 Slides
SAR500	5000 Slides
SAR999	10000 Slides

**SensiTek Alk-Phos Anti-Rabbit Staining System**

Contains: 4 x 15ml Super Block  
 4 x 15ml Anti-Rabbit  
 4 x 15ml Alk-Phos

<u>Catalog Number</u>	<u>Volume</u>
AFF600	500 Slides

**SensiTek Individual Reagents****SensiTek Alkaline Phosphatase**

The SensiTek reagents are ideal for laboratories that require both performance and economy. The link antibody and enzyme label each require a 20-minute incubation period. The reagents produce clear, crisp staining with almost any commercially available primary antibody.

<u>Catalog Number</u>	<u>Volume</u>
ABH008	8 ml
ABH015	15 ml
ABH125	125 ml
ABH500	500 ml
ABH999	1000 ml

**SensiTek Anti-Mouse**

The SensiTek reagents are ideal for laboratories that require both performance and economy. The link antibody and enzyme label each require a 20-minute incubation period. The reagents produce clear, crisp staining with almost any commercially available primary antibody.

<u>Catalog Number</u>	<u>Volume</u>
ABC008	8 ml
ABC015	15 ml
ABC125	125 ml
ABC500	500 ml
ABC999	1000 ml

**SensiTek Anti-Polyvalent**

The SensiTek reagents are ideal for laboratories that require both performance and economy. The link antibody and enzyme label each require a 20-minute incubation period. The reagents produce clear, crisp staining with almost any commercially available primary antibody.

<u>Catalog Number</u>	<u>Volume</u>
ABF008	8 ml
ABF015	15 ml
ABF125	125 ml
ABF500	500 ml
ABF999	1000 ml

**SensiTek Anti-Rabbit**

The SensiTek reagents are ideal for laboratories that require both performance and economy. The link antibody and enzyme label each require a 20-minute incubation period. The reagents produce clear, crisp staining with almost any commercially available primary antibody.

<u>Catalog Number</u>	<u>Volume</u>
ABE008	8 ml
ABE015	15 ml
ABE125	125 ml
ABE500	500 ml
ABE999	1000 ml

**SensiTek Horseradish Peroxidase**

The SensiTek reagents are ideal for laboratories that require both performance and economy. The link antibody and enzyme label each require a 20-minute incubation period. The reagents produce clear, crisp staining with almost any commercially available primary antibody.

<u>Catalog Number</u>	<u>Volume</u>
ABG008	8 ml
ABG015	15 ml
ABG125	125 ml
ABG500	500 ml
ABG999	1000 ml

**Super Block**

Is a unique serum-free protein block for immunochemistry. Super Block eliminates the need for matching species with the link antibody and is often, more effective at reducing non-specific background staining than normal serum. This product is currently being used in a variety of applications including, Immunohistochemistry, ELISA plate blocking, and blotting. For OEM customers, this product can be modified to meet individual assay needs. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
AAA125	125 ml
AAA500	500 ml
AAA999	1000 ml

## EconoTek

### HRP

#### EconoTek HRP Anti-Polyvalent (DAB)

The EconoTek reagents are ideal for laboratories that require both performance and maximum economy. The link antibody and enzyme label each require a 30-minute incubation period. The reagents produce clear, crisp staining with almost any commercially available primary antibody. Our Anti-Polyvalent systems may be used with primary antibodies derived from Mouse, Rat, Rabbit and Guinea Pig.

Contains: 1 x 8ml Peroxide Block  
 1 x 8ml Super Block  
 1 x 8ml Anti-Polyvalent  
 1 x 8ml HRP  
 1 x 3ml DAB Chromogen  
 7 x 5ml DAB Substrate

Catalog Number	Volume
AEX080	70 Slides

#### EconoTek HRP Anti-Polyvalent Lab Pack

The EconoTek reagents are ideal for laboratories that require both performance and maximum economy. The link antibody and enzyme label each require a 30-minute incubation period. The reagents produce clear, crisp staining with almost any commercially available primary antibody. Our Anti-Polyvalent systems may be used with primary antibodies derived from Mouse, Rat, Rabbit and Guinea Pig.

The bulk kits are ideal for high volume laboratories. Each Pack contains one bottle of Super Block (universal protein block), one bottle of Biotinylated Antibody (Polyvalent), and one bottle of Enzyme Labeled Streptavidin. Each bottle contains 125, 500, or 1000ml of reagent. These Lab-Packs provide an extremely economical alternative for automated staining systems.

Catalog Number	Volume
EHP125	1250 Slides
EHP500	5000 Slides
EHP999	10000 Slides

## Alk-Phos

#### EconoTek Alk-Phos Anti-Polyvalent Lab Pack

The EconoTek reagents are ideal for laboratories that require both performance and maximum economy. The link antibody and enzyme label each require a 30-minute incubation period. The reagents produce clear, crisp staining with almost any commercially available primary antibody. Our Anti-Polyvalent systems may be used with primary antibodies derived from Mouse, Rat, Rabbit and Guinea Pig.

The bulk kits are ideal for high volume laboratories. Each Pack contains one bottle of Super Block (universal protein block), one bottle of Biotinylated Antibody (Polyvalent), and one bottle of Enzyme Labeled Streptavidin. Each bottle contains 125, 500, or 1000ml of reagent. These Lab-Packs provide an extremely economical alternative for automated staining systems.

Catalog Number	Volume
EAP125	1250 Slides
EAP500	5000 Slides
EAP999	10000 Slides

#### EconoTek Alk-Phos Anti-Polyvalent (Fast Red)

The EconoTek reagents are ideal for laboratories that require both performance and maximum economy. The link antibody and enzyme label each require a 30-minute incubation period. The reagents produce clear, crisp staining with almost any commercially available primary antibody. Our Anti-Polyvalent systems may be used with primary antibodies derived from Mouse, Rat, Rabbit and Guinea Pig.

Contains: 1 x 8ml Super Block  
 1 x 8ml Anti-Polyvalent  
 1 x 8ml Alk-Phos  
 8 Fast-Red Tablets  
 8 x 5ml Naphthol Phosphate Buffer

Catalog Number	Volume
AEY080	70 Slides

## Polymer IHC

### Polymer Kits

#### CRF Anti-Polyvalent HRP Polymer (DAB) Lab Pack

The CRF Anti-Polyvalent HRP Polymer (DAB) Lab Pack based on proprietary CRF Technology has been developed to provide the cleanest, most consistent staining available. Developed in the research laboratories of ScyTek, the system utilizes a polymerized peroxidase label that eliminates biotin and its' associated background issues from the equation. In addition, this product reduces the steps required for immunohistochemical staining by combining two steps from the traditional Biotin-Streptavidin system. The CRF technology based Anti-Polyvalent system is effective with antibodies of mouse, rat, rabbit and guinea pig. Each Lab Pack includes either 125ml, 500ml, or 1000ml of each component.

Contains: One bottle of Super Block.  
One bottle of CRF Anti-Polyvalent HRP Polymer.  
One bottle of DAB Substrate (High Contrast)  
One vial of DAB Chromogen Concentrate.

<u>Catalog Number</u>	<u>Volume</u>
CPP125	1250 Slides
CPP500	5000 Slides
CPP999	10000 Slides

### Polymer HRP

#### CRF Anti-Polyvalent HRP Polymer (DAB) Stain Kit

The CRF Anti-Polyvalent HRP Polymer (DAB) Stain Kit based on proprietary CRF Technology has been developed to provide the cleanest, most consistent staining available. Developed in the research laboratories of ScyTek, the system utilizes a polymerized peroxidase label that eliminates biotin and its' associated background issues from the equation. In addition, this product reduces the steps required for immunohistochemical staining by combining two steps from the traditional Biotin-Streptavidin system. The CRF technology based Anti-Polyvalent system is effective with antibodies of mouse, rat, rabbit and guinea pig.

Kit Contents: Peroxide Block 8 ml  
Super Block 8 ml  
CRF Anti-Polyvalent HRP 8 ml  
DAB Chromogen Concentrate 3 ml  
DAB Substrate (High Contrast) 5 ml x 8 vials

<u>Catalog Number</u>	<u>Volume</u>
CPH080	80 Slides

#### PolyTek Anti-Mouse (DAB) Polymerized HRP Imaging System

PolyTek HRP Anti-Mouse (DAB) Polymerized Imaging System has been developed to provide the cleanest, most consistent staining available. Developed in the research laboratories of ScyTek, the system is based on a polymerized peroxidase label that eliminates biotin and its' associated background issues from the equation. In addition, this product reduces the steps required for immunohistochemical staining by combining two steps from the traditional Biotin-Streptavidin system. PolyTek HRP Anti-Mouse Polymerized Imaging System is effective with antibodies of mouse or rat origin.

Contains: 1 x 8ml Peroxide Block for Image Analysis  
1 x 8ml Super Block  
1 x 8ml PolyTek Anti-Mouse HRP  
1 x 3ml DAB Chromogen  
8 x 5ml DAB Substrate (High Contrast)

<u>Catalog Number</u>	<u>Volume</u>
PIR080	70 Slides

#### PolyTek Anti-Mouse HRP Polymer (DAB) Large Volume Kit

PolyTek Anti-Mouse HRP Polymer (DAB) Large Volume Kit has been developed to provide the cleanest, most consistent staining available. Developed in the research laboratories of ScyTek, the system is based on a polymerized peroxidase label that eliminates biotin and its' associated background issues from the equation. In addition, this product reduces the steps required for immunohistochemical staining by combining two steps from the traditional Biotin-Streptavidin system. PolyTek Anti-Mouse HRP Polymer Large Volume Kit is effective with antibodies of mouse or rat origin.

<u>Catalog Number</u>	<u>Volume</u>
PIR500	500 ml
PIR999	1000 ml

#### PolyTek HRP Anti-Rabbit Polymerized Imaging System

PolyTek HRP Anti-Rabbit (DAB) Polymerized Imaging System has been developed to provide the cleanest, most consistent staining available. Developed in the research laboratories of ScyTek, the system is based on a polymerized peroxidase label that eliminates biotin and its' associated background issues from the equation. In addition, this product reduces the steps required for immunohistochemical staining by combining two steps from the traditional Biotin-Streptavidin system. PolyTek HRP Anti-Rabbit Polymerized Imaging System is effective with antibodies of rabbit or guinea pig origin.

Contains: 1 x 8ml Peroxide Block for Image Analysis  
1 x 8ml Super Block  
1 x 8ml PolyTek Anti-Rabbit HRP  
1 x 3ml DAB Chromogen  
8 x 5ml DAB Substrate (High Contrast)

<u>Catalog Number</u>	<u>Volume</u>
PIP080	1 kit(s)

## Polymer Individual Reagents

### CRF Anti-Polyvalent HRP Polymer

CRF Anti-Polyvalent HRP Polymer has been developed to provide the cleanest, most consistent staining available. Developed in the research laboratories of ScyTek, the system is based on a polymerized peroxidase label that eliminates biotin and its' associated background issues from the equation. In addition, this product reduces the steps required for immunohistochemical staining by combining two steps from the traditional Biotin-Streptavidin system. CRF Anti-Polyvalent HRP Polymer is effective with antibodies of mouse, rat, rabbit and

<u>Catalog Number</u>	<u>Volume</u>
ABZ008	8 ml
ABZ015	15 ml
ABZ125	125 ml
ABZ500	500 ml
ABZ999	1000 ml

### PolyTek Anti-Mouse Polymerized Alk-Phos

PolyTek Anti-Mouse Polymerized Alk-Phos has been developed to provide the cleanest, most consistent staining available. Developed in the research laboratories of ScyTek, the system is based on a polymerized alkaline phosphatase label that eliminates biotin and its' associated background issues from the equation. In addition, this product reduces the steps required for immunohistochemical staining by combining two steps from the traditional Biotin-Streptavidin system. PolyTek Anti-Mouse Polymerized Alk-Phos is effective with antibodies of mouse or rat origin.

<u>Catalog Number</u>	<u>Volume</u>
PAT008	8 ml
PAT015	15 ml
PAT125	125 ml
PAT500	500 ml
PAT999	1000 ml

### PolyTek, Anti-Mouse Polymerized HRP

PolyTek, Anti-Mouse Polymerized HRP has been developed to provide the cleanest, most consistent staining available. The system is based on a polymerized peroxidase label that eliminates biotin from the equation, thereby eliminating a major cause of background staining. In addition, this product reduces the steps required for immunohistochemical staining by combining two steps from the traditional Biotin-Streptavidin system.

<u>Catalog Number</u>	<u>Volume</u>
PAM008	8 ml
PAM015	15 ml
PAM125	125 ml
PAM500	500 ml
PAM999	1000 ml

### PolyTek, Anti-Rabbit Polymerized Alk-Phos

PolyTek Anti-Rabbit Polymerized Alk-Phos has been developed to provide the cleanest, most consistent staining available. Developed in the research laboratories of ScyTek, the system is based on a polymerized alkaline phosphatase label that eliminates biotin and its' associated background issues from the equation. In addition, this product reduces the steps required for immunohistochemical staining by combining two steps from the traditional Biotin-Streptavidin system. PolyTek Anti-Rabbit Polymerized Alk-Phos is effective with antibodies of rabbit or guinea pig origin.

<u>Catalog Number</u>	<u>Volume</u>
PAL008	8 ml
PAL015	15 ml
PAL125	125 ml
PAL500	500 ml
PAL999	1000 ml

### PolyTek, Anti-Rabbit Polymerized HRP

PolyTek, Anti-Rabbit Polymerized HRP has been developed to provide the cleanest, most consistent staining available. The system is based on a polymerized peroxidase label that eliminates biotin from the equation, thereby eliminating a major cause of background staining. In addition, this product reduces the steps required for immunohistochemical staining by combining two steps from the traditional Biotin-Streptavidin system.

<u>Catalog Number</u>	<u>Volume</u>
PAR008	8 ml
PAR015	15 ml
PAR125	125 ml
PAR500	500 ml
PAR999	1000 ml

### Super Block

Is a unique serum-free protein block for immunochemistry. Super Block eliminates the need for matching species with the link antibody and is often, more effective at reducing non-specific background staining than normal serum. This product is currently being used in a variety of applications including, Immunohistochemistry, ELISA plate blocking, and blotting. For OEM customers, this product can be modified to meet individual assay needs. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
AAA125	125 ml
AAA500	500 ml
AAA999	1000 ml

## Species Specific Reagents

### Mouse to Mouse

#### Mouse to Mouse Alk-Phos (Permanent Red) Staining System

The Mouse to Mouse staining kit provides unmatched sensitivity with incubation times of 10 minutes each for the Link Antibody and Enzyme Label. This kit includes our Permanent Red chromogen, which can be coverslipped with solvent based mounting media for long term storage.

Contains: 1 x 8ml Super Block  
1 x 8ml Mouse Block  
1 x 8ml Anti-Polyvalent  
1 x 8ml Alk-Phos  
1 x 2ml Permanent Red Concentrate  
7 x 5ml Permanent Red Buffer

<u>Catalog Number</u>	<u>Volume</u>
MTM004	70 Slides

#### Mouse to Mouse Alk-Phos Staining System

Contains: 3 x 15ml Super Block  
3 x 15ml Mouse Block  
3 x 15ml Anti-Polyvalent  
3 x 15ml Alk-Phos

<u>Catalog Number</u>	<u>Volume</u>
MTM005	400 Slides

#### Mouse to Mouse HRP (AEC) Staining System

Contains: 1 x 8ml Peroxide Block  
1 x 8ml Super Block  
1 x 8ml Mouse Block  
1 x 8ml Anti-Polyvalent  
1 x 8ml HRP  
1 x 3ml Chromogen  
6 x 5ml Substrate

<u>Catalog Number</u>	<u>Volume</u>
MTM002	70 Slides

#### Mouse to Mouse HRP (DAB) Staining System

Contains: 1 x 8ml Peroxide Block  
1 x 8ml Super Block  
1 x 8ml Mouse Block  
1 x 8ml Anti-Polyvalent  
1 x 8ml HRP  
1 x 3ml Chromogen  
6 x 5ml Substrate

<u>Catalog Number</u>	<u>Volume</u>
MTM001	70 Slides

#### Mouse to Mouse HRP Staining System

Contains: 3 x 15ml Super Block  
3 x 15ml Mouse Block  
3 x 15ml Anti-Polyvalent  
3 x 15ml HRP

<u>Catalog Number</u>	<u>Volume</u>
MTM003	400 Slides

ScyTek Laboratories, Inc. - Telephone 800-729-8350 - Fax 435-755-0015 - [scytex@scytex.com](mailto:scytex@scytex.com) - [www.scytek.com](http://www.scytek.com)

### Mouse-to-Mouse Blocking Reagent

ScyTek's Mouse to Mouse reagent has been formulated to provide the researcher with a staining system capable of visualizing mouse monoclonal antibodies on mouse tissue. In most cases a 30-minute incubation with Mouse to Mouse block will virtually eliminate background staining that is caused by endogenous immunoglobulins. We highly recommend that this reagent be used in conjunction with ScyTek's UltraTek Anti-Mouse staining system for optimal results.

<u>Catalog Number</u>	<u>Volume</u>
MTM008	8 ml
MTM015	15 ml
MTM125	125 ml
MTM500	500 ml

### Human to Human

#### Human-to-Human Blocking Reagent

ScyTek's Human to Human reagent has been formulated to provide the researcher with a staining system capable of visualizing human monoclonal antibodies on human tissue. In most cases a 30-minute incubation with Human to Human block will virtually eliminate background staining that is caused by endogenous immunoglobulins.

<u>Catalog Number</u>	<u>Volume</u>
HTH008	8 ml
HTH015	15 ml
HTH100	100 ml

### Rabbit to Rabbit

#### Rabbit-to-Rabbit Blocking Reagent

ScyTek's Rabbit-to-Rabbit reagent has been formulated to provide the researcher with a staining system capable of visualizing Rabbit antibodies on Rabbit tissue. In most cases a 30-minute incubation with Rabbit-to-Rabbit block will virtually eliminate background staining that is caused by endogenous immunoglobulins. We highly recommend that this reagent be used in conjunction with ScyTek's UltraTek Anti-Rabbit staining system for optimal results.

<u>Catalog Number</u>	<u>Volume</u>
RTR008	8 ml
RTR015	15 ml
RTR125	125 ml
RTR500	500 ml

## Blocking Reagents (IHC)

### Biotin Blocking Kit for Image Analysis

Biotin Blocking Kit has been developed to use with immunohistochemical (IHC) techniques for the reduction of nonspecific background staining due to endogenous biotin. Biotin is a coenzyme of decarboxylase. It is present in many tissues, such as liver, pancreas, kidney, and intestine. Endogenous biotin can interfere with staining systems that employ the use of biotin. This product is designed to effectively eliminate the interfering tendencies of endogenous biotin.

Clear liquid, two components (A and B).

Store Biotin Blocking Kit at 2-8 deg. C. Product is stable for 18 months from date of manufacture.

<u>Catalog Number</u>	<u>Volume</u>
BBK030	15 ml ea.
BBK120	60 ml ea.

### Human-to-Human Blocking Reagent

ScyTek's Human to Human reagent has been formulated to provide the researcher with a staining system capable of visualizing human monoclonal antibodies on human tissue. In most cases a 30-minute incubation with Human to Human block will virtually eliminate background staining that is caused by endogenous immunoglobulins.

<u>Catalog Number</u>	<u>Volume</u>
HTH008	8 ml
HTH015	15 ml
HTH100	100 ml

### Mouse-to-Mouse Blocking Reagent

ScyTek's Mouse to Mouse reagent has been formulated to provide the researcher with a staining system capable of visualizing mouse monoclonal antibodies on mouse tissue. In most cases a 30-minute incubation with Mouse to Mouse block will virtually eliminate background staining that is caused by endogenous immunoglobulins. We highly recommend that this reagent be used in conjunction with ScyTek's UltraTek Anti-Mouse staining system for optimal results.

<u>Catalog Number</u>	<u>Volume</u>
MTM008	8 ml
MTM015	15 ml
MTM125	125 ml
MTM500	500 ml

### Peroxide Block

Is recommended for the reduction of background staining due to endogenous peroxidase.

<u>Catalog Number</u>	<u>Volume</u>
ACA015	15 ml
ACA125	125 ea.
ACA500	500 ml
ACA999	1000 ml

### Peroxide Block for Image Analysis

This reagent has been developed for use with immunohistochemical (IHC) techniques for the reduction of nonspecific background staining due to endogenous peroxidase. Traditional methods describe blocking peroxidase with hydrogen peroxide. This reagent employs hydrogen peroxide in combination with additional novel components to further quench endogenous peroxidase.

Storage: 2-8 deg. Centigrade

<u>Catalog Number</u>	<u>Volume</u>
ADA015	15 ml
ADA500	500 ml
ADA999	1000 ml

### Pro-Block

Is a unique serum-free protein block for immunochemistry. Pro-Block eliminates the need for matching species with the link antibody and is often, more effective at reducing non-specific background staining than normal serum.

Pro-Block is similar to Super Block, but without casein. The reagent is filtered at 0.2 microns.

<u>Catalog Number</u>	<u>Volume</u>
PBK125	125 ml
PBK500	500 ml
PBK999	1000 ml
PBK010	10 L
PBK-20000	20 L

### Rabbit-to-Rabbit Blocking Reagent

ScyTek's Rabbit-to-Rabbit reagent has been formulated to provide the researcher with a staining system capable of visualizing Rabbit antibodies on Rabbit tissue. In most cases a 30-minute incubation with Rabbit-to-Rabbit block will virtually eliminate background staining that is caused by endogenous immunoglobulins. We highly recommend that this reagent be used in conjunction with ScyTek's UltraTek Anti-Rabbit staining system for optimal results.

<u>Catalog Number</u>	<u>Volume</u>
RTR008	8 ml
RTR015	15 ml
RTR125	125 ml
RTR500	500 ml

### Super Block

Is a unique serum-free protein block for immunochemistry. Super Block eliminates the need for matching species with the link antibody and is often, more effective at reducing non-specific background staining than normal serum. This product is currently being used in a variety of applications including, Immunohistochemistry, ELISA plate blocking, and blotting. For OEM customers, this product can be modified to meet individual assay needs. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
AAA125	125 ml
AAA500	500 ml
AAA999	1000 ml



## Chromogens (IHC)

### HRP

#### HRP Kits

##### AEC Chromogen/Substrate Bulk Kit

3-Amino-9-Ethylcarbazole (AEC) is a widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of peroxidase enzyme, AEC produces a vivid red end product that is soluble in alcohol and must be used with an aqueous counterstain and mounting media. This product is available in a two component form consisting of a liquid, refrigerator stable AEC Chromogen and AEC Substrate. Each component is individually stable for 18 months from the date of manufacture.

<u>Catalog Number</u>	<u>Volume</u>
ACJ500	515 ml
ACJ999	1030 ml

##### AEC Chromogen/Substrate Kit

3-Amino-9-Ethylcarbazole (AEC) is a widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of peroxidase enzyme, AEC produces a vivid red end product that is soluble in alcohol and must be used with an aqueous counterstain and mounting media. This product is available in a two component form consisting of a liquid, refrigerator stable AEC Chromogen and AEC Substrate. Each component is individually stable for 18 months from the date of manufacture. This kit is formatted using convenient dropper-top vials.

Substrate Pack:  
55ml Substrate (5 x 11 vials)  
3ml AEC Chromogen

<u>Catalog Number</u>	<u>Volume</u>
ACG500	500 Slides

##### DAB (Post) Enhancing Solution

3,3'-Diaminobenzidine (DAB) is a widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of peroxidase enzyme, DAB produces a brown precipitate that is insoluble in alcohol. This solution has been developed to enhance DAB staining in a post staining procedure. The DAB will turn a darker and more intense brown after post-staining treatment.

<u>Catalog Number</u>	<u>Volume</u>
DES500	500 ml
DES999	1000 ml

##### DAB Away Kit

Contamination with Diaminobenzidine residue is a problem seen in many laboratories. Of particular concern to the technician is the reusable glassware and staining pads. This product completely removes the stain, rather than simply reduce the color intensity as the use of bleach does. The three component kit makes one liter of cleaning solution.

COMPONENTS:  
DAB Reagent #1 - 125 ml  
DAB Reagent #2 - 125 ml  
Decolorizer - 250 ml

<u>Catalog Number</u>	<u>Volume</u>
ACP001	500 ml

##### DAB Chromogen/Substrate Bulk pack

3,3'-Diaminobenzidine (DAB) Ready-to-Use  
Is a widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of the peroxidase enzyme, DAB produces a brown precipitate that is insoluble in alcohol. Stained slides may be mounted in any commercially available permanent mounting media. This product is available in a convenient two component form.

<u>Catalog Number</u>	<u>Volume</u>
ACK500	530 ml
ACK999	1060 ml

##### DAB Chromogen/Substrate Bulk Pack (High Contrast)

This product has been developed for applications that require high contrast between the chromogen and Hematoxylin counterstain. The resulting stain is a darker brown than standard DAB and somewhat more sensitive. 3,3'-Diaminobenzidine (DAB) is a widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of peroxidase enzyme, DAB produces a brown precipitate that is insoluble in alcohol. This product is available in a two component form consisting of a liquid, refrigerator stable DAB Chromogen and DAB Substrate (High Contrast). The use of liquid components reduces some risks associated with handling powders (ie. dust inhalation), and eliminates waste which often results from using tablets that require a predetermined final volume.

<u>Catalog Number</u>	<u>Volume</u>
ACV500	530 ml
ACV999	1060 ml

##### DAB Chromogen/Substrate Kit

3,3'-Diaminobenzidine (DAB) Ready-to-Use  
Is a widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of the peroxidase enzyme, DAB produces a brown precipitate that is insoluble in alcohol. Stained slides may be mounted in any commercially available permanent mounting media. This product is available in a convenient two component form. For maximum flexibility, this product is available in bulk amounts or convenient dropper-top substrate packs.

Substrate Pack:  
55ml DAB Substrate (x11 vials)  
3ml DAB Chromogen

<u>Catalog Number</u>	<u>Volume</u>
ACH500	500 Slides



**DAB Chromogen/Substrate Kit (High Contrast)**

This product has been developed for applications that require high contrast between the chromogen and Hematoxylin counterstain. The resulting stain is a darker brown than standard DAB and somewhat more sensitive. ScyTek recommends using Hematoxylin for Automation (catalog # HAQ500) for optimal contrast. 3,3'-Diaminobenzidine (DAB) is a widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of peroxidase enzyme, DAB produces a brown precipitate that is insoluble in alcohol. This product is available in a two component form consisting of a liquid, refrigerator stable DAB Chromogen and DAB Substrate (High Contrast). The standard working dilution is 50ul (0.9mg) of DAB Chromogen per 1ml of DAB Substrate (High Contrast), although the ratio can be adjusted as desired. The use of liquid components reduces some risks associated with handling powders (ie. dust inhalation), and eliminates waste which often results from using tablets that require a predetermined final volume. Once the two components are combined, the reagent can be used for up to six hours, making it ideal for automated stainers.

<u>Catalog Number</u>	<u>Volume</u>
ACT500	500 Slides

**DAB Differentiating Solution**

May be used for removal of excess DAB staining from tissue specimens.

<u>Catalog Number</u>	<u>Volume</u>
DDS500	500 ml

**DAB Enhancer Solution**

3,3'-Diaminobenzidine (DAB) is a widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of peroxidase enzyme, DAB produces a brown precipitate that is insoluble in alcohol. This solution has been developed to enhance DAB staining in a post staining procedure. The use of DAB Enhancer Solution will result a darker and more intense blackish-brown stain

<u>Catalog Number</u>	<u>Volume</u>
ACM030	30 ml

**HRP Individual Reagents****AEC Chromogen Concentrate**

<u>Catalog Number</u>	<u>Volume</u>
ACD015	15 ml
ACD030	30 ml
ACD125	125 ml

**AEC Substrate Buffer**

<u>Catalog Number</u>	<u>Volume</u>
ACE500	500 ml
ACE999	1000 ml

**DAB (Post) Enhancing Solution**

3,3'-Diaminobenzidine (DAB) is a widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of peroxidase enzyme, DAB produces a brown precipitate that is insoluble in alcohol. This solution has been developed to enhance DAB staining in a post staining procedure. The DAB will turn a darker and more intense brown after post-staining treatment.

<u>Catalog Number</u>	<u>Volume</u>
DESS00	500 ml
DES999	1000 ml

**DAB Chromogen Concentrate**

3,3'-Diaminobenzidine (DAB) Concentrate is a widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of the peroxidase enzyme, DAB produces a brown precipitate that is insoluble in alcohol. Stained slides may be mounted in any commercially available permanent mounting media. This product is available in a convenient two component form. For maximum flexibility, this product is available in bulk amounts or convenient dropper-top. Use with ScyTek catalog number ACC999, DAB Substrate.

<u>Catalog Number</u>	<u>Volume</u>
ACB030	30 ml
ACB060	60 ml
ACB125	125 ml
ACB500	500 ml
ACB999	1000 ml

**DAB Enhancer Solution**

3,3'-Diaminobenzidine (DAB) is a widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of peroxidase enzyme, DAB produces a brown precipitate that is insoluble in alcohol. This solution has been developed to enhance DAB staining in a post staining procedure. The use of DAB Enhancer Solution will result a darker and more intense blackish-brown stain

<u>Catalog Number</u>	<u>Volume</u>
ACM030	30 ml

**DAB Substrate (High Contrast)**

This product is available in a convenient two component form. For maximum flexibility, this product is available in bulk amounts or convenient dropper-top. Use with ScyTek catalog number ACB030, DAB Chromogen.

<u>Catalog Number</u>	<u>Volume</u>
ACU250	250 ml
ACU500	500 ml
ACU999	1000 ml

**DAB Substrate Buffer**

This product is available in a convenient two component form. For maximum flexibility, this product is available in bulk amounts or convenient dropper-top. Use with ScyTek catalog number ACB030, DAB Chromogen.

<u>Catalog Number</u>	<u>Volume</u>
ACC500	500 ml
ACC999	1000 ml

## Alk-Phos

### Alk-Phos Kits

#### Alk-Phos Blue Kit

Alk-Phos Blue is a chromogen for immunohistochemical staining and immunoblotting. When in the presence of alkaline phosphatase enzyme, Alk-Phos Blue produces a bright blue precipitate that may be permanently mounted with minimal loss of intensity.

<u>Catalog Number</u>	<u>Volume</u>
APB-60	64 ml

#### BCIP/INT Solution

5-Bromo-4-Chloro-3-IndolylPhosphate/p-Iodonitrotetrazolium (BCIP/INT) Solution

Is a chromogen used in immunohistochemical and in-situ staining. This reagent is available as a single component, ready-to-use reagent. When in the presence of the Alkaline-Phosphatase enzyme, BCIP/INT produces a brown precipitate that is soluble in alcohol.

<u>Catalog Number</u>	<u>Volume</u>
ACL125	125 ml
ACL500	500 ml
ACL999	1000 ml

#### BCIP/NBT Solution

5-Bromo-4-Chloro-3-Indolyl Phosphate/nitroblue Tetrazolium (BCIP/NBT) Solution

Is a widely used chromogen for immunohistochemical and in-situ staining. This reagent is available as a single component, ready-to-use reagent. When in the presence of the Alkaline-Phosphatase enzyme, BCIP/NBT produces a purple precipitate that is soluble in alcohol.

<u>Catalog Number</u>	<u>Volume</u>
ACN125	125 ml
ACN500	500 ml
ACN999	1000 ml

#### New Fuchsin Kit

This is a chromogen for immunohistochemical staining and immunoblotting. When in the presence of alkaline phosphatase enzyme, New Fuchsin produces an intense red/fuchsia precipitate that may be permanently mounted.

Pack Includes:

64 ml 60ml Buffer  
2ml New Fuchsin Concentrate  
2ml Activator

430 ml 400ml Buffer  
15ml New Fuchsin  
15ml Activator

4,250 ml 4,000ml Buffer  
125ml New Fuchsin  
125ml Activator

<u>Catalog Number</u>	<u>Volume</u>
NF0001	64 ml
NF0002	430 ml

#### Permanent Red Bulk Pack (For Alkaline Phosphatase)

Permanent Red is a chromogen for immunohistochemical staining and immunoblotting. When in the presence of alkaline phosphatase enzyme, Permanent Red produces an intense red precipitate that may be permanently mounted. Reagent may be mixed for up to 2 hours prior to application making it suitable for automated staining.

<u>Catalog Number</u>	<u>Volume</u>
PRD500	515 ml
PRD999	1030 ml

#### Permanent Red Kit (For Alkaline Phosphatase)

Permanent Red (For Alkaline Phosphatase) is a two-component chromogen for immunohistochemical staining and immunoblotting. When in the presence of alkaline phosphatase enzyme, Permanent Red produces an intense red precipitate that is insoluble in alcohol and may be permanently mounted in synthetic resin. The working solution may be mixed for up to 2 hours prior to application making it suitable for automated staining.

Contents:

Catalog# PRD-15 1ml Permanent Red  
15ml Buffer

Catalog# PRD-61 2ml Permanent Red  
60ml Buffer

<u>Catalog Number</u>	<u>Volume</u>
PRD-15	15 ml
PRD-61	61 ml

## Alk-Phos Individual Reagents

### Alkaline Phosphatase Enhancer

Is a single component, ready-to-use reagent which produces a several-fold increase in staining intensity. To use, simply incubate the tissue section for one minute in this reagent, just prior to incubation with Fast-Red, BCIP, or New Fuchsin.

<u>Catalog Number</u>	<u>Volume</u>
APE125	125 ml
APE500	500 ml
APE999	1000 ml

### BCIP/INT Solution

5-Bromo-4-Chloro-3-IndolylPhosphate/p-Iodonitrotetrazolium (BCIP/INT) Solution

Is a chromogen used in immunohistochemical and in-situ staining. This reagent is available as a single component, ready-to-use reagent. When in the presence of the Alkaline-Phosphatase enzyme, BCIP/INT produces a brown precipitate that is soluble in alcohol.

<u>Catalog Number</u>	<u>Volume</u>
ACL125	125 ml
ACL500	500 ml
ACL999	1000 ml

### BCIP/NBT Solution

5-Bromo-4-Chloro-3-Indolyl Phosphate/nitroblue Tetrazolium (BCIP/NBT) Solution

Is a widely used chromogen for immunohistochemical and in-situ staining. This reagent is available as a single component, ready-to-use reagent. When in the presence of the Alkaline-Phosphatase enzyme, BCIP/NBT produces a purple precipitate that is soluble in alcohol.

<u>Catalog Number</u>	<u>Volume</u>
ACN125	125 ml
ACN500	500 ml
ACN999	1000 ml

## Ancillary (IHC)

### BRIJ 35 Solution (25-30%)

BRIJ 35 Solution is a nonionic polyoxyethylene surfactant used in a variety of protein methods. The reagent is an aqueous base containing 25-30% w/v proteomics grade BRIJ 35 making it optimal for use as a wetting agent in immunohistochemical reagents.

<u>Catalog Number</u>	<u>Volume</u>
BRJ500	500 ml
BRJ999	1000 ml

### Primary Antibody Dropper Vial

Provides a simple solution for storing and dispensing of diluted primary antibodies. Using a permanent marker, simply fill in the Antibody, Species, Date Manufactured, and the Expiration Date. Store diluted antibody at 2-8 C.

Contains: 1x15ml Vial, 1 Dropper Tip, 1 Green Cap, and 3 printed labels.

<u>Catalog Number</u>	<u>Volume</u>
PAV015	1 ea.

### Tween 20

Polyoxyethylenesorbitan Monolaurate - Tween 20.

<u>Catalog Number</u>	<u>Volume</u>
TWN500	500 ml
TWN999	1000 ml

### Water, Deionized/Distilled

Water for use in laboratory procedures has been deionized, distilled and filtered at 0.2 micrometer for critical assays.

<u>Catalog Number</u>	<u>Volume</u>
DDH999	1000 ml
DDH3800	1 Gal.
DDH-20000	20 L

## Antibody Diluents and Stabilizers

### Alk-Phos Stabilizing Diluent

This reagent is formulated specifically for Alkaline Phosphatase conjugates. The product insures consistently high levels of activity for both the enzyme and the antibody following long-term storage at final dilution. This product has been chemically engineered to increase conjugate stability providing the customer a longer shelf life, resistance to various shipping conditions and storage temperatures. Alk-Phos Stabilizing Diluent is filtered at 0.2 um and reinforced with a non-mercury or azide-free preservative. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
APD500	500 ml
APD999	1000 ml

### Enzyme Label Diluent

Provided as a ready-to-use diluent for enzyme labeled antibodies and streptavidin/avidin enzyme conjugates. Diluted reagents can be stored at 2-8 deg. C for up to 18 months at immunohistochemical dilutions. This reagent is subjected to 0.2 micron filtration.

<u>Catalog Number</u>	<u>Volume</u>
ABI500	500 ml
ABI999	1000 ml

**HRP Stabilizing Diluent (MOPS Buffered)**

HRP Stabilizing Diluent (MOPS Buffered) has been developed specifically for the stabilization of Horseradish Peroxidase conjugates in solution. HRP Stabilizer prevents the loss of catalytic activity and maintains the conformation of the antibody or protein antigen portion of the conjugate. Product is filtered at 0.2 microns.

Contents: Aqueous, protein-containing diluent and stabilizer for Horseradish Peroxidase conjugates.

Preservative: 0.02% Bromonitrodioxane, 0.02% 2-Methyl-4-isothiazolin-3-one, 0.005% Proclin 300 (Proclin is a registered trademark of Rohm & Haas Company), and 0.0008% Neomycin.

<u>Catalog Number</u>	<u>Volume</u>
HSM125	125 ml
HSM500	500 ml
HSM999	1000 ml

**HRP Stabilizing Diluent (Phosphate Buffered)**

This product has been developed to significantly increase the shelf life of diluted peroxidase labeled proteins. Stability is increased at room temperature storage conditions in addition to 2-8 centigrade. This product is subjected to 0.45 micron filtration, and contains no mercury or azide. This formulation insures consistently high levels of activity for both the enzyme and the antibody following long-term storage at final-use dilution. HRP Stabilizer greatly improves the signal to noise ratios which increases the immunoassay sensitivity and offers cleaner assays. This product has been chemically engineered to increase conjugate stability providing the customer a longer shelf life, resistance to various shipping conditions & storage temperatures and improved day to day assay precision.

This product is recommended to be used in conjunction with ScyTek's proprietary Coating Stabilizer, Blocking Buffer (Super Block), Washing solution, TMB and Stopping Solution. All of the ELISA products are available in bulk quantities, including custom lot sizes up to 5000 liters. ScyTek Laboratories, Inc. specializes in custom manufacturing, vialing, labeling and packaging. Call today for a quote 800-729-8350.

<u>Catalog Number</u>	<u>Volume</u>
HSB500	500 ml
HSB999	1000 ml

**Normal Antibody Diluent (Phosphate Buffered)**

Provided as a ready-to-use diluent for primary antibodies and link/secondary antibodies. In most cases, antibodies diluted in this reagent can be stored at 4-8 deg. C for up to 18 months. Diluent is subjected to 0.2 micron filtration.

<u>Catalog Number</u>	<u>Volume</u>
ABB125	125 ml
ABB500	500 ml
ABB999	1000 ml

**Normal Antibody Diluent (Tris Buffered)**

Provided as a ready-to-use diluent for primary antibodies and link/secondary antibodies. In most cases, antibodies diluted in this reagent can be stored at 4-8 deg. C for up to 18 months. Diluent is subjected to 0.2 micron filtration.

<u>Catalog Number</u>	<u>Volume</u>
ADT125	125 ml
ADT500	500 ml
ADT999	1000 ml

**Primary Antibody Diluent (Phosphate, Green)**

Provided as a ready-to-use (Phosphate Buffered) diluent containing green dye for diluting primary antibodies and for use as a negative control. Both monoclonal and polyclonal antibodies are stabilized for long-term storage thereby reducing the number of titrations required from concentrated form. This product contains a highly purified carrier protein that minimizes proteolytic enzyme degradation, a wetting agent to reduce surface tension and an anti-microbial agent to prevent microbial growth. Not for antibodies that have been conjugated with peroxidase. In most cases, antibodies diluted in this reagent can be stored for 24 months at 2-8 C. Diluent is subjected to 0.2 micron filtration.

pH 7.4

<u>Catalog Number</u>	<u>Volume</u>
APG125	125 ml
APG500	500 ml
APG999	1000 ml
APG010	10 L

**Primary Antibody Diluent (Tris, Green)**

Provided as a ready-to-use (Tris Buffered) diluent containing green dye for diluting primary antibodies and for use as a negative control. Both monoclonal and polyclonal antibodies are stabilized for long-term storage thereby reducing the number of titrations required from concentrated form. This product contains a highly purified carrier protein that minimizes proteolytic enzyme degradation, a wetting agent to reduce surface tension and an anti-microbial agent to prevent microbial growth. Not for antibodies that have been conjugated with peroxidase. In most cases, antibodies diluted in this reagent can be stored for 24 months at 2-8 C. Diluent is subjected to 0.2 micron filtration.

pH 7.4

<u>Catalog Number</u>	<u>Volume</u>
ATG125	125 ml
ATG500	500 ml
ATG999	1000 ml
ATG-20000	20 L

## Digestion Enzymes and Enhancers

### Citrate Buffer (10x) pH 6.0

Citrate Buffer (10X) HIER Solution (pH 6.0) is a unique citrate buffer designed to significantly enhance immunohistochemical staining with many commercially available primary antibodies. Diluted 1:10 with deionized or distilled water, this product is easy to use and highly effective.

<u>Catalog Number</u>	<u>Volume</u>
CBB125	125 ml
CBB500	500 ml
CBB999	1000 ml

### Citrate Plus (10x) HIER Solution

This is a unique citrate buffer designed to significantly enhance immunohistochemical staining with many commercially available primary antibodies. Diluted 1:10 with deionized or distilled water, this product is easy to use and highly effective. Citrate Plus (10X) can be used in a vegetable steamer, autoclave, or pressure cooker. However, for optimal results we recommend the autoclave or pressure cooker.  
pH 6.5 ±0.5

<u>Catalog Number</u>	<u>Volume</u>
CPL500	500 ml
CPL999	1000 ml

### EDTA - Saline Buffer (10X Concentrate); pH 8.0

EDTA Buffer (10X) HIER Solution (pH 8.0) is a unique buffer designed to significantly enhance immunohistochemical staining with many commercially available primary antibodies. Diluted 1:10 with deionized or distilled water, this product is easy to use and highly effective.

<u>Catalog Number</u>	<u>Volume</u>
ETA500	500 ml
ETA999	1000 ml

### Pepsin, Stabilized Solution

The tissue section is incubated 10 minutes at 37 deg. centigrade in this single component, ready-to-use solution. This product is stable for 12 months at 4 deg. Centigrade. Pepsin is a commonly used digestive enzyme for immunohistochemical procedures. This product is provided as a single component, ready-to-use solution.

<u>Catalog Number</u>	<u>Volume</u>
PSS060	60 ml
PSS125	125 ml

### Tris-EDTA HIER Solution (10x) pH 9.0

Tris-EDTA HIER Solution (10x) pH 9.0 is a unique buffer designed to significantly enhance immunohistochemical staining with many commercially available primary antibodies. Diluted 1:10 with deionized or distilled water, this product is easy to use and highly effective.

<u>Catalog Number</u>	<u>Volume</u>
TES500	500 ml
TES999	1000 ml

### Trypsin Enzymatic Digestion Kit

The tissue section is incubated 10 minutes at 37 deg. centigrade in this two component, ready-to-use solution. This product is stable for 9 months at 2-8 deg. Centigrade. This product contains 30 or 60 ml of Trypsin concentrate, and 125 or 250 ml of Buffer.

<u>Catalog Number</u>	<u>Volume</u>
TSS155	155 ml
TSS310	310 ml

## Buffers

### Phosphate Buffered Saline (10x) pH 7.4

ScyTek Phosphate Buffered Saline (10x) pH 7.4 is an optimal formulation of pH stabilizers and salts designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
PBD500	500 ml
PBD999	1000 ml
PBD010	10 L
PBD-20000	20 L

### Phosphate Buffered Saline (25x) pH 7.6

ScyTek Phosphate Buffered Saline (25x) pH of 7.6 is an optimal formulation of pH stabilizers and salts designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
PBS125	125 ml
PBS500	500 ml
PBS999	1000 ml
PBS010	10 L
PBS-20000	20 L

### Phosphate Buffered Saline plus Tween 20 (10x) pH 7.4

ScyTek Phosphate Buffered Saline + Tween 20 (10x) pH of 7.4 is an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
PBE500	500 ml
PBE999	1000 ml
PBE010	10 L
PBE-20000	20 L

### Phosphate Buffered Saline plus Tween 20 (20x) pH 7.6

ScyTek Wash buffer formulations are an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
PBT500	500 ml
PBT999	1000 ml
PBT010	10 L
PBT-20000	20 L

### Tris Buffered Saline (10x) pH 7.5

ScyTek Tris Buffered Saline (10x) pH of 7.5 is an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
TBD500	500 ml
TBD999	1000 ml
TBD010	10 L
TBD-20000	20 L

### Tris Buffered Saline (25x) pH 7.4

ScyTek Tris Buffered Saline (25x) pH of 7.4 is an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
TBS500	500 ml
TBS999	1000 ml
TBS010	10 L
TBS-20000	20 L

**Tris Buffered Saline plus Tween 20 (10x) pH 7.5**

ScyTek Tris Buffered Saline + Tween 20 (10x) pH of 7.5 is an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
TBE500	500 ml
TBE999	1000 ml
TBE010	10 L
TBE-20000	20 L

**Tris Buffered Saline plus Tween 20 (20x Concentrate) pH 7.4**

ScyTek Tris Buffered Saline + Tween 20 (20x Concentrate) pH of 7.4 is an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the tissue sample or microtiter plate wells without disrupting the antibody binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application.

<u>Catalog Number</u>	<u>Volume</u>
TBT500	500 ml
TBT999	1000 ml
TBT010	10 L
TBT-20000	20 L

**Mounting Media (IHC)****Aqueous Mount**

Is formulated for coverslipping sections stained with alcohol soluble chromogens, such as Fast-Red or AEC. Available in convenient dropper top bottles. Coverslips can be removed by soaking in water. No heating is required before use.

<u>Catalog Number</u>	<u>Volume</u>
AMT030	30 ml
AMT060	60 ml
AMT500	500 ml
AMT999	1000 ml

**Aqueous Mount (Low Viscosity)**

Is formulated for coverslipping sections stained with alcohol soluble chromogens, such as Fast-Red or AEC. Available in convenient dropper top bottles. Coverslips can be removed by soaking in water. No heating is required before use. Flows more freely than AMT.

<u>Catalog Number</u>	<u>Volume</u>
AML030	30 ml
AML060	60 ml
AML500	500 ml
AML999	1000 ml

**Buffered Glycerol Mounting Media**

Buffered Glycerol Mounting Media is a non-drying formulation that is useful in a variety of procedures, such as immunofluorescence, immunohistochemistry, special stains, etc. Coverslips may be easily removed by soaking in water. No heating is required before use. Contains no Anti-Fade components. pH 8.0

<u>Catalog Number</u>	<u>Volume</u>
GMM003	3 ml
GMM030	30 ml
GMM500	500 ml
GMM999	1000 ml

**FluoreGuard Mounting Medium**

FluoreGuard Mounting Medium is a water-soluble medium designed for semi-permanent coverslipping of fluorescent slide preparations. FluoreGuard dries to a semi-rigid layer which eliminates tissue damage due to moving coverslips and facilitates long term storage.

<u>Catalog Number</u>	<u>Volume</u>
FMM030	30 ml
FMM060	60 ml
FMM500	500 ml
FMM999	1000 ml

**FluoreGuard Mounting Medium (Hard Set)**

FluoreGuard Mounting Medium (Hard Set) is a water-soluble medium designed for semi-permanent coverslipping of fluorescent slide preparations. FluoreGuard dries to a semi-rigid layer which eliminates tissue damage due to moving coverslips and facilitates long term storage.

<u>Catalog Number</u>	<u>Volume</u>
FMH030	30 ml
FMH060	60 ml
FMH500	500 ml
FMH999	1000 ml



## Permanent Mounting Media (Aqueous)

AEC and Fast Red are two of the most commonly used chromogens for peroxidase and alkaline phosphatase based immunostaining systems respectively. However, slides stained with these chromogens cannot be stored permanently. Permanent Mounting Medium (Aqueous) has been designed to overcome this limitation. This product is an aqueous mounting medium with a very high refractive index, which when applied to the stained tissue sections can store the tissue specimens permanently without fading of the chromogens. Because of the superior refractive index, tissues mounted in this medium look like dehydrated specimens. No coverslipping is required. However, if coverslipping is desired, dry slides can be post mounted using an organic based mounting medium. Advantages of this product include: no coverslip, no exposure to the organic fumes, permanent storage of slides and high resolution of tissue specimens. This reagent is compatible with AEC, DAB, Fast Red, BCIP/NBT, BCIP/INT and fluorescent dyes like FITC and phycobiliproteins. High pH ensures increased stability of fluorescence.

<u>Catalog Number</u>	<u>Volume</u>
PMT030	30 ml

## Miscellaneous (IHC)

### KP Marker Plus

Klinipath KP Marker Plus is a solvent resistant marking pen for permanent writing on glass slides, cassettes and other items in the laboratory. One box contains 12 pens.

<u>Catalog Number</u>	<u>Volume</u>
KPM-1	12 Pen(s)

### PAP Pen

This marking pen has been designed to provide a thin film-like barrier when a circle is drawn around the specimen on a slide. This barrier creates the proper surface tension to hold an antibody solution within the target area on the slide. PAP Pen contains a special formulation which is insoluble in alcohol and acetone. It can be removed, if desired, by xylene after the staining procedure is completed.

<u>Catalog Number</u>	<u>Volume</u>
LP0001	1 ea.

### PAP Pen-Mini

This marking pen has been designed to provide a thin film-like barrier when a circle is drawn around the specimen on a slide. This barrier creates the proper surface tension to hold an antibody solution within the target area on the slide. PAP Pen contains a special formulation which is insoluble in alcohol and acetone. It can be removed, if desired, by xylene after the staining procedure is completed.

<u>Catalog Number</u>	<u>Volume</u>
LP0002	1 ea.

## Equipment (IHC)

### Blue Base for Dissecting Board

To make dissecting more comfortable, this heavy-duty base is used to elevate the DissecTable Board to the right height. The bases are stackable and will not move sideways during the dissecting work. The base will also retain excess fluid if necessary.

Dimensions: 481 mm x 656 mm x 91 mm (19 1/4 x 26 1/4 x 3 5/8 in H)

<u>Catalog Number</u>	<u>Volume</u>
M625	1 ea.

### Cassettes in QuickLoad Sleeves

The sleeved cassettes are especially made to be used with ThermoFisher printers. Cassettes with tape are to be used with Leica and Sakura Ink Jet printers. Molded from a special high density acetal polymer, they keep specimens safely submerged and are totally resistant to the chemical action of solvents used in histology laboratories. The efficient flow-through slots maximize fluid exchange and ensure proper reagent drainage.

<u>Catalog Number</u>	<u>Volume</u>
M480-9SL-GRAY	1 ea.
M480-2SL-WHITE	1 ea.
M480-8SL-TAN	1 ea.
M480-11SL-ORANGE	1 ea.
M480-6SL-BLUE	1 ea.
M480-4SL-GREEN	1 ea.
M480-7SL-PEACH	1 ea.
M480-3SL-PINK	1 ea.
M480-12SL-AQUA	1 ea.
M480-10SL-GRAY	1 ea.
M480-5SL-YELLOW	1 ea.

### CoreDish for Lower GI Track Biopsies

For lower GI track biopsies. Twelve compartments. An area for patient information is provided. Ten labeled compartments: Proximal Flexure Colon, Hepatic Flexure Colon, Distal Transverse Colon, Ascending Colon, Splenic flexure Colon, Cecum, Descending Colon, Terminal Ileum, Rectum, Sigmoid Colon. Leakproof seal, thanks to O-ring lid, allows for safe and easy transport of the specimens from collection to analysis.

Made of polystyrene.

Qty/Cs 10

<u>Catalog Number</u>	<u>Volume</u>
M970-D12LGIPREFILLE	1 Case(s)
M971-D12LGI	1 Case(s)



### CoreDish for Prostate Biopsies

Few recommendations concerning how the biopsies should be handled have been published. Performing a large number of biopsies means an increase in the number of containers handled and consequently a technical overload of the transmission network, which occurs without any financial counterpart. A new approach had to be developed in order to increase productivity.

Simport is proud to offer a multi-compartment container for prostate biopsies. The CoreDish is in the shape of a dish measuring only 15 mm high x 95 mm diameter and is half prefilled with 10% Neutral Buffered Formalin. The screw on lid incorporates an O-ring in order to make it leakproof and protect its contents. The CoreDish conforms to OSHA directives. An area for patient information is provided on the label. Each compartment is clearly identified to allow proper placement and visualization of the prostate biopsy being inserted. Out of eight compartments, six are labeled: Base, Lateral Base, Medial, Lateral Medial, Apex, Lateral Apex.

Thanks to the CoreDish it is no more necessary to use a multitude of individual containers, thereby reducing risks of confusion.

Qty/Cs 10

<u>Catalog Number</u>	<u>Volume</u>
M971-D8P	1 Case(s)
M970-D8P-PREFILLED	1 Case(s)

### CoreDish Prostate Biopsy Container with 10% Formalin

Few recommendations concerning how the biopsies should be handled have been published. Performing a large number of biopsies means an increase in the number of containers handled and consequently a technical overload of the transmission network, which occurs without any financial counterpart. A new approach had to be developed in order to increase productivity.

Simport is proud to offer a multi-compartment container for prostate biopsies. The CoreDish is in the shape of a dish measuring only 15 mm high x 95 mm diameter and is half prefilled with 10% Neutral Buffered Formalin. The screw on lid incorporates an O-ring in order to make it leakproof and protect its contents. The CoreDish conforms to OSHA directives. An area for patient information is provided on the label. Each compartment is clearly identified to allow proper placement and visualization of the prostate biopsy being inserted. All twelve compartments are labeled:

L Base, R Base, L Lateral Base, R Lateral Base, L Lateral Medial, L Medial, R Medial, R Lateral Medial, L Lateral Apex, L Apex, R Apex, R Lateral Apex.

Thanks to the CoreDish it is no more necessary to use a multitude of individual containers, thereby reducing risks of confusion.

Made of polystyrene.

Qty/Cs 10

<u>Catalog Number</u>	<u>Volume</u>
M970-D12P-PREFILLED	1 Case(s)
M971-D12P	1 Case(s)

### CoreDish Upper GI Tract

Upper GI track biopsy container with 10% formalin. For upper GI track biopsies. Eight compartments. An area for patient information is provided. Seven labeled compartments: Gastric Card, Gastric Body, GE Junction, Gastric ATR, Distal Esophagus, Pylorus, Duodenum. Leakproof seal, thanks to O-ring lid, allows for safe and easy transport of the specimens from collection to analysis. 10 per case.

Made of polystyrene.

<u>Catalog Number</u>	<u>Volume</u>
M971-D8UGI	1 Case(s)
M970-D8UGI-PREFILLE	1 Case(s)

### Dissecting Board

A new and unique approach makes this dissecting board more convenient than any other found on the market today. It is no more necessary to buy different sizes as this board offers a large surface on one side and two smaller ones on the other side.

Made of heavy-duty stain resistant thick polyethylene, it will last for years to come without changing shape, bending or swelling. Will not dull fine surgical blades. In order to contain fluids, a drain groove is carved all around the edge of the DissecTable.

On one side, you will find a large cutting area including dimensional scales in inches and centimeters, along with a 60 x 80 mm grid made of 48 x 10 mm squares. Six dimensional circles are also printed from 1/8 to 5/8 in. and 4 to 14 mm in diameter. Flip it over and the other side offers two cutting boards half the size with the same dimensional features printed on each one of them. All corners have rubber feet giving more stability to the working surface.

Dimensions: 575 mm x 400 mm x 12.5 mm (23 x 16 x 1/2 in H)

<u>Catalog Number</u>	<u>Volume</u>
M620	1 ea.

### Dissecting Board Jr.

A smaller DissecTable is also available with the same features and benefits as the M620. Perfect for smaller counter area.

Dimensions: 330.2 mm x 279.4 mm x 12.5 mm (13 x 11 x 1/2 in H)

<u>Catalog Number</u>	<u>Volume</u>
M618	1 ea.

### EasyDip Slide Staining System

Finally a user-friendly approach for staining your microscope slides, the EasyDip Slide Staining System has two components: a square staining jar and a 12 - position vertical slide rack. Jars can be loosely joined to each other laterally, therefore making sure they are kept in the same order when moved around on the lab counter. As an extra benefit, they are available in 5 different colors to help better identifying contents or applications.

The staining jar being made of resistant acetal plastic will not break like most glass jars do. It will resist most staining agents including alcohol and xylene (but not phenol, iodine or ferric chloride). The wide stable base offers greater stability while the inside is recessed, allowing for a smaller reagent volume of only 80 ml. Easy to clean and no metals to corrode. Ideal for special stains, frozen sections and special processes. Will resist temperatures between -170 C and +121 C. Autoclavable. Dimensions: 64 x 76 x 92 mm H (2 1/2 x 3 x 3 5/8 in. H).

Each case includes 5 jars (one of each color) and 1 rack M905-12DGY.

<u>Catalog Number</u>	<u>Volume</u>
M900-12G-GREEN	1 Case(s)
M900-12P-PINK	1 Case(s)
M900-12Y-YELLOW	1 Case(s)
M900-12W-WHITE	1 Case(s)
M900-12B-BLUE	1 Case(s)
M900-12AS-ASSORTED	1 Case(s)

### EASYDIP Stainless Steel Holder

Made of Stainless Steel. Will hold up to 6 Jars.

<u>Catalog Number</u>	<u>Volume</u>
M906	1 ea.

### Embedding Cassettes

Disposable plastic tissue cassettes are suitable for holding and identifying tissue samples in processing, embedding, and sectioning procedures. The cassettes fit securely in microtome chuck adapters. They are molded from a high density polymer that is totally resistant to the chemical action of histological solvents. These cassettes are designed to accept standard metal lids (cat.# M481) and will keep specimens in complete safety during processing. The slanted writing surface accepts markings easily, permitting sample identification throughout all stages of embedding and long afterwards when in archives. They are available in 11 colors. Each case contains 3 dispenser boxes of 500 cassettes.

<u>Catalog Number</u>	<u>Volume</u>
M480-4-GREEN	1 ea.
M480-3-PINK	1 ea.
M480-2-WHITE	1 ea.
M480-5-YELLOW	1 ea.
M480-9-GRAY	1 ea.
M480-10-LILAC	1 ea.
M480-6-BLUE	1 ea.
M480-12-AQUA	1 ea.
M480-11-ORANGE	1 ea.
M480-8-TAN	1 ea.
M480-7-PEACH	1 ea.

### Metal Lid for M480 Cassette

Metal Lid for M480 Cassette.

Qty/Pk 25

<u>Catalog Number</u>	<u>Volume</u>
M481	1 ea.

### Slide Master

(An Innovative Immunohistochemistry Humidity Chamber)

ScyTek Laboratories, Inc. proudly introduces SlideMaster. A humidity chamber designed by a histotechnologist that eliminates the majority of individual slide handling. SlideMaster has three different parts: A humidity chamber, two individual slide holders with white contrast bars, and a waste receptacle. It has been designed so that all three components are compact and easy to use. A maximum of 20 slides can be used per unit.

This is how it works. A hydrophobic barrier (PAP Pen, Catalog #LP0001) is drawn around the tissue section and slides are put in a special slide holder that secures them into place. Drops of antibody are placed on the slides and incubated. After incubation, the individual slide holders can be tilted and secured at a 45 degree angle. All 20 slides are rinsed off in one easy motion and the buffer (PBS-Tween 20, Catalog # ABA125 or TBS-Tween 20, Catalog # TBS125) drains into the waste receptacle. Slides are gently blotted (tissue paper) at the bottom portion of the hydrophobic barrier, which draws off any remaining liquid on the tissue. The slide holders are then placed back in the horizontal position and incubation and rinse steps are repeated in the same fashion.

For chromogen development, the SlideMaster unit has a contrast bar that changes the background from black to white. The black background produces high contrast so that the tissues mounted glass slides can be easily seen, and the white background produces high contrast and allows the technician to monitor the chromogen development. Slides are then rinsed and counterstained and are then ready for coverslipping. SlideMaster is very easy to use. It is light weight and durable.

By making the hydrophobic barrier around the tissue section as small as possible, the total volume of antibody reagent can be significantly reduced per slide. Instead of using 100-200 microliters of antibodies per tissue section usually 50 microliters will completely cover small tissues and 100 microliters will cover larger tissues. With this method, slide staining is much more efficient, more consistent, drying-out of slides is minimized, and the cost of reagents is reduced.

<u>Catalog Number</u>	<u>Volume</u>
E00001	1 ea.

### Slidefile Storage System 100 Positions

Each SlideFile Storage System includes a slide box and a removable tray. A tinted hinged cover makes the contents of the box easy to see at a glance. The base is available in five different colors to help in slide classification and to minimize the possibility of sample mix-up.

The key to the SlideFile System is a removable tray inside the storage box having a hundred individual numbered slots. All slides are stored upright for easier insertion and removal. Simply tilt them forward and backward with one finger to easily and rapidly pick up the slide you need. A unique feature with this system is to be able to read bar codes without having to remove the slides from the box.

For space saving purposes, you can double the amount of slides simply by storing two slides per slot. For maximum storage space, simply remove the tray and line up 400 slides in 3 rows for long term storage. Will resist temperatures between -80 C and +80 C. Not autoclavable.

Dimensions: 82 x 245 x 86 mm H (3 1/4 x 9 5/8 x 3 3/8 in. H)

<u>Catalog Number</u>	<u>Volume</u>
M700-100W-WHITE	1 Case(s)

### Stain Tray Slide Staining System

Made of ABS Plastic

Another user friendly approach to immunohistochemistry staining. This tray is also suitable not only for routine staining requiring a humid chamber but is also ideal for Hematology, Cytology and Microbiology laboratories. Manipulation is made safe and easy by using only one hand.

The StainTray has a black base made of tough ABS plastic withstanding a wide range of chemicals (Avoid chlorinated hydrocarbons). It will accept up to 20 slides on four plastic rails covered with a polymer strip to perfectly hold slides even if tray is held at an angle. When humidity is needed, wells between rails will hold up to one ml of water securely without splashing. Middle wells will hold up to 2 ml each. Rails are raised not only to avoid water touching the slides but to make them more easily retrieveable. The base will also hold excess stain solution dripping from the slides. Four rubber feet ensure greater base stability. Units are stackable for space saving purposes.

Two covers are available:

A clear one (M920-1) allowing for visual examination. Made of PETG with a temperature range of -20 C to +60 C.

A black lid (M920-2) for fluorescent work. Made of ABS with a temperature range of -80 C to +80 C.

Dimensions with cover: 38 W x 24 D x 4.5 H cm (15 W x 9 3/8 D x 1 3/4 H in.)

<u>Catalog Number</u>	<u>Volume</u>
M920-1	1 Clear
M920-2	1 Black

### Vertical Slide Staining Rack Dark Gray

The EasyDip Slide Staining Rack will hold up to 12 microscope slides with dimensions such as 75 x 25 mm, (3 x 1 in.) and even 76 x 26 mm and with a thickness of 1.0 and 1.2 mm. The slides fit into individual slots for free passage and rapid drainage of staining fluids. Since they are placed vertically in the rack and not horizontally, their writing area will not be stained by the fluid, allowing their removal without the use of forceps. The lid completely covers the EasyDip Slide Staining Jar to minimize spill and evaporation. A handle is permanently attached to the rack for easy insertion and removal of slides without your fingers touching the solution. Available in dark gray only. Will resist temperatures between -170 C and +121 C. Autoclavable. Dimensions: 60 x 64 x 97 mm H (2 1/4 x 2 1/2 x 3 3/4 in. H).

<u>Catalog Number</u>	<u>Volume</u>
M905-12DGY	1 Case(s)

# Antibodies

## Research Antibodies

### Carcinoembryonic Antigen (CEA) / CD66; Clone C66/1030 (Concentrate)

Species: Mouse  
 Immunogen: Recombinant full-length human CEA protein  
 Clone: C66/1030  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Others not known.  
 Positive Control: MCF7 or 293T cells. Colon carcinoma.  
 Specificity: This antibody recognizes proteins of 80-200kDa, identified as different members of CEA family. This MAb does not react with nonspecific cross-reacting antigen (NCA) and with human polymorphonuclear leucocytes. It shows no reaction with a variety of normal tissues and is suitable for staining of formalin/paraffin tissues.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0490-C.1	0.1 ml
RA0490-C.5	0.5 ml
RA0490-C1	1 ml

## Monoclonal Concentrate

### ACTH (Adrenocorticotrophic Hormone); Clone 2F6 (Concentrate)

Species: Mouse  
 Immunogen: Synthetic peptide corresponding to aa 1-24 of human ACTH  
 Clone: 2F6  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Mouse, and Rat. Expected to show a broad species reactivity.  
 Positive Control: Normal pituitary gland or pituitary tumor.  
 Specificity: This antibody is specific to Synacthen (aa 1-24 of ACTH); this antibody does not react with CLIP (aa 17-39 of ACTH). Anti-ACTH is a useful marker in classification of pituitary tumors and in the study of pituitary disease. It reacts with ACTH-producing cells (corticotrophs). It also may react with other tumors (e.g. some small cell carcinomas of the lung) causing paraneoplastic syndromes by secreting ACTH.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0267-C.1	0.1 ml
RA0267-C.5	0.5 ml

### ACTH (Adrenocorticotrophic Hormone); Clone 57 (Concentrate)

Species: Mouse  
 Immunogen: N-terminal fragment of human ACTH conjugated to KLH  
 Clone: 57  
 Isotype: IgG1, kappa  
 Species Reactivity: Human and Rat. Expected to show a broad species reactivity.  
 Positive Control: Normal pituitary gland or pituitary tumor.  
 Specificity: This antibody is specific to Synacthen (aa 1-24 of ACTH); this antibody does not react with CLIP (aa 17-39 of ACTH). Anti-ACTH is a useful marker in classification of pituitary tumors and in the study of pituitary disease. It reacts with ACTH-producing cells (corticotrophs). It also may react with other tumors (e.g. some small cell carcinomas of the lung) causing paraneoplastic syndromes by secreting ACTH.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0266-C.1	0.1 ml
RA0266-C.5	0.5 ml

### ACTH (Adrenocorticotrophic Hormone); Clone AH26 & 57 (Concentrate)

Species: Mouse  
 Immunogen: Synthetic peptide corresponding to aa 1-24 of human ACTH (AH26); N-terminal fragment of human ACTH conjugated to KLH (57).  
 Clone: AH26 & 57  
 Isotype: IgG1, kappa (AH26); IgG1, kappa (57).  
 Species Reactivity: Human, Mouse, and Rat. Expected to show a broad species reactivity.  
 Positive Control: Normal pituitary gland or pituitary tumor.  
 Specificity: This antibody is specific to Synacthen (aa 1-24 of ACTH); this antibody does not react with CLIP (aa 17-39 of ACTH). Anti-ACTH is a useful marker in classification of pituitary tumors and in the study of pituitary disease. It reacts with ACTH-producing cells (corticotrophs). It also may react with other tumors (e.g. some small cell carcinomas of the lung) causing paraneoplastic syndromes by secreting ACTH.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0268-C.1	0.1 ml
RA0268-C.5	0.5 ml

**ACTH (Adrenocorticotrophic Hormone); Clone AH26 (Concentrate)**

Species: Mouse

Immunogen: Synthetic peptide corresponding to aa 1-24 of human ACTH

Clone: AH26

Isotype: IgG1, kappa

Species Reactivity: Human, Mouse and Rat. Expected to show a broad species reactivity.

Positive Control: Normal pituitary gland or pituitary tumor.

Specificity: This antibody is specific to Synacthen (aa 1-24 of ACTH); this antibody does not react with CLIP (aa 17-39 of ACTH).

Anti-ACTH is a useful marker in classification of pituitary tumors and in the study of pituitary disease. It reacts with ACTH-producing cells (corticotrophs). It also may react with other tumors (e.g. some small cell carcinomas of the lung) causing paraneoplastic syndromes by secreting ACTH.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0265-C.1	0.1 ml
RA0265-C.5	0.5 ml

**Actin, Muscle Specific (Muscle Cell Marker); Clone HHF35 (Concentrate)**

Species: Mouse

Immunogen: SDS extract of human myocardium.

Clone: HHF35

Isotype: IgG1, kappa

Species Reactivity: Human, Rabbit, and Rat. Others not known.

Positive Control: Muscle or sarcoma.

Specificity: This antibody recognizes actin of skeletal, cardiac, and smooth muscle cells. It is not reactive with other mesenchymal cells except for myoepithelium.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0405-C.1	0.1 ml
RA0405-C.5	0.5 ml

**Actin, Muscle Specific (Muscle Cell Marker); Clone MSA/953 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human actin protein.

Clone: MSA/953

Isotype: IgG1, kappa

Species Reactivity: Human, Rabbit, and Rat. Others not known.

Positive Control: Muscle or sarcoma.

Specificity: This antibody recognizes actin of skeletal, cardiac, and smooth muscle cells. It is not reactive with other mesenchymal cells except for myoepithelium.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0406-C.1	0.1 ml
RA0406-C.5	0.5 ml

**Actin, Smooth Muscle (Leiomyosarcoma Marker); Clone 1A4 (Concentrate)**

Species: Mouse

Immunogen: N-terminal decapeptide of alpha smooth muscle isoform of actin and conjugated to KLH.

Clone: 1A4

Isotype: IgG2a, kappa

Species Reactivity: Human, Baboon, Monkey, Cow, Pig, Sheep, Goat, Cat, Dog, Rabbit, Mouse, Rat, Guinea Pig and Chicken.

Others not known.

Positive Control: Blood vessels in all tissues, smooth muscle or leiomyosarcoma.

Specificity: This MAb is highly specific to actin from smooth muscles. Its epitope lies in the first four N-terminal amino acids. This MAb does not stain cardiac or skeletal muscle; however, it does stain myofibroblasts and myoepithelial cells. In most cases of rhabdomyosarcoma, this antibody yields negative results whereas anti-muscle specific actin and myogenin are positive. Leiomyosarcomas are positive only with anti-muscle specific actin and anti-smooth muscle actin and are negative with anti-myogenin.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0001-C.1	0.1 ml
RA0001-C.5	0.5 ml

**Actin, Smooth Muscle (Leiomyosarcoma Marker); Clone ACTA2/791 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human ACTA2 protein

Clone: ACTA2/791

Isotype: IgG2a, kappa

Species Reactivity: Human. Shows a broad reactivity.

Positive Control: Blood vessels in all tissues, smooth muscle or leiomyosarcoma.

Specificity: This MAb is highly specific to actin from smooth muscles. This MAb does not stain cardiac or skeletal muscle; however, it does stain myofibroblasts and myoepithelial cells. In most cases of rhabdomyosarcoma, this antibody yields negative results whereas anti-muscle specific actin and myogenin are positive. Leiomyosarcomas are positive only with anti-muscle specific actin and anti-smooth muscle actin and are negative with anti-myogenin.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0002-C.1	0.1 ml
RA0002-C.5	0.5 ml

**AFP (Alpha Fetoprotein) (Hepatocellular/Germ Cell Tumor Marker); Clone C2 (Concentrate)**

Species: Mouse.

Immunogen: Alpha fetoprotein (AFP) purified from serum of a hepatoma patient.

Clone: C2.

Isotype: IgG1, kappa.

Species Reactivity: Reacts with human and mouse. Does not react with cow, dog, and rat. Others not known.

Positive Control: Hep-G2 cells. Fetal liver or hepatocellular carcinoma.

Specificity: It recognizes an oncofetal glycoprotein with a single chain of 70kDa, which is identified as alpha fetoprotein (AFP) (ISOBM TD-2 workshop). This monoclonal antibody is highly specific to AFP and shows no cross-reaction with other oncofetal antigens or serum albumin.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0558-C.1	0.1 ml
RA0558-C.5	0.5 ml
RA0558-C1	1 ml

**AFP (Alpha Fetoprotein) (Hepatocellular/Germ Cell Tumor Marker); Clone C3 (Concentrate)**

Species: Mouse

Immunogen: Alpha fetoprotein (AFP) purified from serum of a hepatoma patient

Clone: C3

Isotype: IgG2a, kappa

Species Reactivity: Human, Monkey, Dog, and Pig. It does not react with Cow, Dog, Mouse, and Rat.

Positive Control: Hep-G2 cells. Fetal liver or hepatocellular carcinoma.

Specificity: This MAb is highly specific to AFP and shows no cross-reaction with other oncofetal antigens or serum albumin.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0003-C.1	0.1 ml
RA0003-C.5	0.5 ml

**AFP (Alpha Fetoprotein) (Hepatocellular/Germ Cell Tumor Marker); Clone FETA/810 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human alpha fetoprotein

Clone: FETA/810

Isotype: IgG2a, kappa

Species Reactivity: Human. Others not known.

Positive Control: Hep-G2 cells. Fetal liver or hepatocellular carcinoma.

Specificity: This MAb recognizes an oncofetal glycoprotein with a single chain of 70kDa, which is identified as alpha fetoprotein (AFP). It is highly specific to AFP and shows no cross-reaction with other oncofetal antigens or serum albumin.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0004-C.1	0.1 ml
RA0004-C.5	0.5 ml

**AFP (Alpha Fetoprotein) (Hepatocellular/Germ Cell Tumor Marker); Clone MBS-12 (Concentrate)**

Species: Mouse.

Immunogen: Recombinant full-length human Alpha fetoprotein.

Clone: MBS-12.

Isotype: IgG1, kappa.

Species Reactivity: Reacts with human. Others not known.

Positive Control: Hep-G2 cells. Fetal liver or hepatocellular carcinoma.

Specificity: It recognizes an oncofetal glycoprotein with a single chain of 70kDa, which is identified as alpha fetoprotein (AFP).

This monoclonal antibody is highly specific to AFP and shows no cross-reaction with other oncofetal antigens or serum albumin.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0557-C.1	0.1 ml
RA0557-C.5	0.5 ml
RA0557-C1	1 ml

**AFP (Alpha Fetoprotein) (Hepatocellular/Germ Cell Tumor Marker); Clone SPM334 (Concentrate)**

Species: Mouse.

Immunogen: Alpha fetoprotein (AFP) purified from serum of a hepatoma patient.

Clone: SPM334.

Isotype: IgG2a, kappa.

Species Reactivity: Reacts with human, monkey, dog, and pig. It does not react with cow, cat, mouse, and rat.

Positive Control: Hep-G2 cells. Fetal liver or hepatocellular carcinoma.

Specificity: This monoclonal antibody recognizes an oncofetal glycoprotein with a single chain of 70kDa, which is identified as alpha fetoprotein (AFP). This monoclonal antibody is highly specific to AFP and shows no cross-reaction with other oncofetal antigens or serum albumin.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0555-C.1	0.1 ml
RA0555-C.5	0.5 ml
RA0555-C1	1 ml

**Alpha-1-Antichymotrypsin (SERPINA3) (Histiocytoma Marker); Clone AACT/1451 & AACT/1452 (Concentrate)**

Species: Mouse.

Immunogen: Recombinant human Antichymotrypsin (AACT) protein fragment (aa49-187) (exact sequence is proprietary).

Clone: AACT/1451 & AACT/1452

Isotype: IgG1 & IgG1

Species Reactivity: Reacts with human. Others not known.

Positive Control: HeLa Cells. Tonsil, pancreas, or histiocytoma.

Specificity: It recognizes a protein of 65-76kDa, which is identified antichymotrypsin (AACT). Acinar tumors of the pancreas and salivary gland may also exhibit AACT positivity.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0523-C.1	0.1 ml
RA0523-C.5	0.5 ml
RA0523-C1	1 ml

### **Alpha-1-Antichymotrypsin (SERPINA3) (Histiocytoma Marker); Clone AACT/1451 (Concentrate)**

Species: Mouse.

Immunogen: Recombinant human Antichymotrypsin (AACT) protein fragment (aa49-187) (exact sequence is proprietary).  
Clone: AACT/1451

Isotype: IgG1.

Species Reactivity: Reacts with human. Others not known.

Positive Control: HeLa Cells. Tonsil, Pancreas or Histiocytoma.

Specificity: It recognizes a protein of 65-76kDa, which is identified antichymotrypsin (AACT). Acinar tumors of the pancreas and salivary gland may also exhibit AACT positivity.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0521-C.1	0.1 ml
RA0521-C.5	0.5 ml
RA0521-C1	1 ml

### **Alpha-1-Antichymotrypsin (SERPINA3) (Histiocytoma Marker); Clone AACT/1452 (Concentrate)**

Species: Mouse.

Immunogen: Recombinant human Antichymotrypsin (AACT) protein fragment (aa49-187) (exact sequence is proprietary).  
Clone: AACT/1452

Isotype: IgG1

Species Reactivity: Reacts with human. Others not known.

Positive Control: HeLa Cells. Tonsil, pancreas, or histiocytoma.

Specificity: It recognizes a protein of 65-76kDa, which is identified antichymotrypsin (AACT). Acinar tumors of the pancreas and salivary gland may also exhibit AACT positivity.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0522-C.1	0.1 ml
RA0522-C.5	0.5 ml
RA0522-C1	1 ml

### **AMACR / p504S (Prostate Cancer Marker); Clone AMACR/2748R (Concentrate)**

Species: Rabbit

Immunogen: Recombinant human AMACR protein fragment (around aa 297-394), exact sequence is proprietary.

Clone: AMACR/2748R

Isotype: IgG

Species Reactivity: Human. Others not known.

Positive Control: HEK cells, Prostate Adenocarcinoma.

Specificity: This antibody recognizes a protein of 42kDa, which is identified as AMACR, also known as p504S.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0526-C.1	0.1 ml
RA0526-C.5	0.5 ml
RA0526-C1	1 ml

### **AMP Deaminase, Isoform E (AMPD3) (Erythroid Marker); Clone AMPD3/901 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human AMPD3 protein

Clone: AMPD3/901

Isotype: IgG2b, kappa

Species Reactivity: Human. Others not known.

Positive Control: RBC. Fetal liver; Spleen or Placenta.

Specificity: This antibody recognizes a protein of ~90kDa, which is identified as Adenosine Monophosphate Deaminase, isoform E (AMPD3).

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0423-C.5	0.5 ml

### **Androgen Receptor (Marker of Androgen Dependence); Clone AR441 & DHTR/882 (Concentrate)**

Species: Mouse

Immunogen: A synthetic peptide, aa 299-315, (STEDTAEYSPFKGGYTK) of human AR (AR441); Recombinant human DHTR protein (DHTR/882)

Clone: AR441 & DHTR/882

Isotype: IgG1, kappa & IgG1, kappa

Species Reactivity: Human. Does not react with mouse. Others not known

Positive Control: LNCap cells or Prostate carcinoma

Specificity: Recognizes a protein of 110kDa, which is identified as androgen receptor (AR). It reacts with full length, and the newly described A form of the receptor. It does not cross react with estrogen, progesterone, or glucocorticoid receptors.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0012-C.1	0.1 ml
RA0012-C.5	0.5 ml

### **Androgen Receptor (Marker of Androgen Dependence); Clone AR441 (Concentrate)**

Species: Mouse

Immunogen: A synthetic peptide, aa 299-315, (STEDTAEYSPFKGGYTK) of human AR

Clone: AR441

Isotype: IgG1, kappa

Species Reactivity: Human. Does not react with mouse. Others not known.

Positive Control: LNCap cells or Prostate carcinoma.

Specificity: Recognizes a protein of 110kDa, which is identified as androgen receptor (AR). It reacts with full length, and the newly described A form of the receptor. It does not cross react with estrogen, progesterone, or glucocorticoid receptors.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0010-C.1	0.1 ml
RA0010-C.5	0.5 ml



**Androgen Receptor (Marker of Androgen Dependence); Clone DHTR/882 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human DHTR protein  
 Clone: DHTR/882  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Does not react with mouse. Others not known.  
 Positive Control: LNCap cells or Prostate carcinoma  
 Specificity: Recognizes a protein of 110kDa, which is identified as androgen receptor (AR). It reacts with full length, and the newly described A form of the receptor. It does not cross react with estrogen, progesterone, or glucocorticoid receptors.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0011-C.1	0.1 ml
RA0011-C.5	0.5 ml

**Arginase 1 (Hepatocellular Carcinoma Marker); Clone ARG1/1125 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant fragment (87 amino acid residues around 1-150) of human ARG1 protein.  
 Clone: ARG1/1125  
 Isotype: IgG2b, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T cells. Hepatocellular Carcinoma (HCC)  
 Specificity: This antibody recognizes a protein of 35-38kDa, which is identified as Arginase 1 (ARG1).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0457-C.1	0.1 ml
RA0457-C.5	0.5 ml
RA0457-C1	1 ml

**Arginase 1 (Hepatocellular Carcinoma Marker); Clone ARG1/1126 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant fragment (87 amino acid residues around 1-150) of human ARG1 protein.  
 Clone: ARG1/1126  
 Isotype: IgG3, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T cells. Hepatocellular Carcinoma (HCC).  
 Specificity: This antibody recognizes a protein of 35-38kDa, which is identified as Arginase 1 (ARG1).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0458-C.1	0.1 ml
RA0458-C.5	0.5 ml
RA0458-C1	1 ml

**ATRX; Clone AX1 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant protein fragment of human ATRX.  
 Clone: AX1  
 Isotype: IgG1/k  
 Species Reactivity: Human  
 Positive Control: 1p/19q co-deleted glioma.  
 Specificity: Reacts specifically with ATRX in tissue sections.  
 Status: RUO  
 Manufactured By: Dianova GmbH

<u>Catalog Number</u>	<u>Volume</u>
DIA-AX1	0.5 ml

**Bax (Apoptosis Marker); Clone 2D2 (Concentrate)**

Species: Mouse  
 Immunogen: A synthetic peptide, aa 3-16 (Cys-GSGEQPRGGGPTSS) of human bax protein.  
 Clone: 2D2  
 Isotype: IgG1  
 Species Reactivity: Human and Monkey. Does not react with mouse and rat. Others not known.  
 Positive Control: Jurkat, K562, HL-60, or HeLa Cells. Reed-Sternberg cells in Hodgkin's lymphoma.  
 Specificity: Recognizes a protein of 21kDa, identified as the Bax protein. This MAb is highly specific to Bax and shows no cross-reaction with Bcl-2 or Bcl-X protein.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0013-C.1	0.1 ml
RA0013-C.5	0.5 ml

**BCL10 (MALT-Lymphoma Marker); Clone BL10/411 (Concentrate)**

Species: Mouse  
 Immunogen: Human BCL10 recombinant protein (epitope aa 122-168)  
 Clone: BL10/411  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: WEHI-231 or Ramos cells or lymphoma.  
 Specificity: This antibody labels subpopulations of normal B-cells and T-cells and is a useful tool for the sub-classification of lymphomas.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0347-C.1	0.1 ml
RA0347-C.5	0.5 ml



**Bcl-2 (Apoptosis & Follicular Lymphoma Marker);  
Clone 100/D5 & 124 (Concentrate)**

Species: Mouse

Immunogen: A synthetic peptide, aa41-54 (GAAPAGIFSSQPG-Cys) of human Bcl-2 (100/D5 &amp; 124)

Clone: 100/D5 &amp; 124

Isotype: IgG1, kappa (100/D5); IgG1, kappa (124)

Species Reactivity: Human. Does not react with mouse and rat. Others not known.

Positive Control: Jurkat, K562, HL-60, or HeLa Cells. Tonsil or follicular lymphomas.

Specificity: This antibody recognizes a protein of 25-26kDa, identified as the Bcl-2 alpha oncoprotein. It shows no cross-reaction with Bcl-x or Bax protein.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0017-C.1	0.1 ml
RA0017-C.5	0.5 ml

**Bcl-2 (Apoptosis & Follicular Lymphoma Marker);  
Clone 100/D5 & BCL2/796**

Species: Mouse

Immunogen: A synthetic peptide, aa41-54 (GAAPAGIFSSQPG-Cys) of human Bcl-2 protein (100/D5); Recombinant human Bcl-2 protein (BCL2/796).

Clone: 100/D5 &amp; BCL2/796

Isotype: IgG1, kappa (100/D5); IgG1, kappa (BCL2/796).

Species Reactivity: Human. Others not known.

Positive Control: Jurkat, K562, HL-60, or HeLa Cells. Tonsil or follicular lymphomas.

Specificity: This antibody recognizes a protein of 25-26kDa, identified as the Bcl-2 alpha oncoprotein. It shows no cross-reaction with Bcl-x or Bax protein.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0020-C.1	0.1 ml
RA0020-C.5	0.5 ml

**Bcl-2 (Apoptosis & Follicular Lymphoma Marker);  
Clone BCL2/782 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human Bcl-2 protein

Clone: BCL2/782

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: Jurkat, K562, HL-60, or HeLa Cells. Tonsil or follicular lymphomas.

Specificity: This antibody recognizes a protein of 25-26kDa, identified as the Bcl-2 alpha oncoprotein. It shows no cross-reaction with Bcl-x or Bax protein.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0018-C.1	0.1 ml
RA0018-C.5	0.5 ml

**Bcl-2 (Apoptosis & Follicular Lymphoma Marker);  
Clone BCL2/796 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human Bcl-2 protein

Clone: BCL2/796

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: Jurkat, K562, HL-60, or HeLa Cells. Tonsil or follicular lymphomas.

Specificity: This antibody recognizes a protein of 25-26kDa, identified as the Bcl-2 alpha oncoprotein. It shows no cross-reaction with Bcl-x or Bax protein.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0019-C.1	0.1 ml
RA0019-C.5	0.5 ml

**Bcl-2 (Apoptosis and Follicular Lymphoma  
Marker); Clone 100/D5 (Concentrate)**

Species: Mouse

Immunogen: A synthetic peptide, aa41-54 (GAAPAGIFSSQPG-Cys) of human Bcl-2 protein.

Clone: 100/D5

Isotype: IgG1, kappa

Species Reactivity: Human. Does not react with Mouse and Rat. Others not known.

Positive Control: Jurkat, K562, HL-60, or HeLa Cells. Tonsil or follicular lymphomas.

Specificity: This antibody recognizes a protein of 25-26kDa, identified as the Bcl-2 alpha oncoprotein. It shows no cross-reaction with Bcl-x or Bax protein.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0015-C.1	0.1 ml
RA0015-C.5	0.5 ml

**Bcl-2 (Apoptosis and Follicular Lymphoma  
Marker); Clone 124 (Concentrate)**

Species: Mouse

Immunogen: A synthetic peptide, aa41-54 (GAAPAGIFSSQPG-Cys) of human Bcl-2 protein

Clone: 124

Isotype: IgG1, kappa

Species Reactivity: Human. Does not react with Mouse and Rat. Others not known.

Positive Control: Jurkat, K562, HL-60, or HeLa Cells. Tonsil or follicular lymphomas.

Specificity: This antibody recognizes a protein of 25-26kDa, identified as the Bcl-2 alpha oncoprotein. It shows no cross-reaction with Bcl-x or Bax protein.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0016-C.1	0.1 ml
RA0016-C.5	0.5 ml

**Bcl-6 (Follicular Lymphoma Marker); Clone IG191E/A8 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human bcl-6 protein

Clone: IG191E/A8

Isotype: IgG1, kappa

Species Reactivity: Human and Mouse. Others not known.

Positive Control: Raji or Ramos cells. Tonsil or Hodgkin's lymphoma.

Specificity: Recognizes a protein of 95kDa, which is identified as Bcl-6. The Reed-Sternberg cells of classical Hodgkin lymphoma are Bcl-6 negative whereas the large ("L&H") cells of NLPHL are Bcl-6 positive. In contrast, anti-Bcl-6 rarely stains mantle-cell lymphoma and MALT lymphoma.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0024-C.1	0.1 ml
RA0024-C.5	0.5 ml

**Bcl-X (Apoptosis Marker); Clone 2H12 (Concentrate)**

Species: Mouse

Immunogen: A synthetic peptide, aa 3-14 (Cys-QSNRELVDLFLS) of human Bcl-X protein

Clone: 2H12

Isotype: IgG2a

Species Reactivity: Human, Mouse, Rat, and Pig. Others not tested.

Positive Control: Jurkat, K562, HL-60, or HeLa Cells. Reed-Sternberg cells in Hodgkin's lymphoma.

Specificity: Recognizes a protein of 27kDa, identified as the Bcl-X protein. This MAb shows no cross-reaction with Bcl-2 or Bax protein. This MAb reacts with both Bcl-XS and Bcl-XL proteins.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0022-C.1	0.1 ml
RA0022-C.5	0.5 ml

**Bcl-X (Apoptosis Marker); Clone BX006 & 2H12 (Concentrate)**

Species: Mouse

Immunogen: A synthetic peptide, aa 3-14 (Cys-QSNRELVDLFLS) of human Bcl-X protein

Clone: BX006 & 2H12

Isotype: IgG2a (BX006) & IgG2a (2H12)

Species Reactivity: Human, Mouse, Rat, and Pig. Others not tested.

Positive Control: Jurkat, K562, HL-60, or HeLa Cells. Reed-Sternberg cells in Hodgkin's lymphoma.

Specificity: Recognizes a protein of 27kDa, identified as the Bcl-X protein. This MAb shows no cross-reaction with Bcl-2 or Bax protein. This MAb reacts with both Bcl-XS and Bcl-XL proteins.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0023-C.1	0.1 ml
RA0023-C.5	0.5 ml

**Bcl-X (Apoptosis Marker); Clone BX006 (Concentrate)**

Species: Mouse

Immunogen: A synthetic peptide, aa 3-14 (Cys-QSNRELVDLFLS) of human Bcl-X protein.

Clone: BX006

Isotype: IgG2a

Species Reactivity: Human, Mouse, Rat, and Pig. Others not tested.

Positive Control: Jurkat, K562, HL-60, or HeLa Cells. Reed-Sternberg cells in Hodgkin's lymphoma.

Specificity: Recognizes a protein of 27kDa, identified as the Bcl-X protein. This MAb shows no cross-reaction with Bcl-2 or Bax protein. This MAb reacts with both Bcl-XS and Bcl-XL proteins.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0021-C.1	0.1 ml
RA0021-C.5	0.5 ml

**Beta-2 Microglobulin (Renal Failure & Tumor Marker); Clone B2M/1118 (Concentrate)**

Species: Mouse

Immunogen: Full length recombinant human B2M protein

Clone: B2M/1118

Isotype: IgG2b, kappa

Species Reactivity: Human and non-human primates. Others not known.

Positive Control: HL-60 or HeLa cells. Melanomas and Lymphoma. Carcinoma of Stomach, Cervix, Endometrial, Kidney or Colon.

Specificity: This antibody is specific for the 12kDa protein known as Beta-2 Microglobulin.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0424-C.5	0.5 ml

**Beta-2 Microglobulin (Renal Failure & Tumor Marker); Clone B2M/961 (Concentrate)**

Species: Mouse

Immunogen: Full length recombinant human B2M protein

Clone: B2M/961

Isotype: IgG2b, kappa

Species Reactivity: Human and non-human primates. Others not known.

Positive Control: HL-60 or HeLa cells. Melanomas and Lymphoma. Carcinoma of Stomach, Cervix, Endometrial, Kidney or Colon.

Specificity: This antibody recognizes a protein of 12kDa, identified as Beta-2 Microglobulin.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0425-C.1	0.1 ml
RA0425-C.5	0.5 ml

**Bromodeoxyuridine (BrdU) (Proliferation Marker);  
Clone 85-2C8 (Concentrate)**

Species: Mouse

Immunogen: Bromodeoxyuridine (BrdU) conjugated to hemocyanine (isolated from *Helix pomatia*)

Clone: 85-2C8

Isotype: IgG1

Species Reactivity: All species

Positive Control: Cells grown in presence of BrdU or tissues from experimental animals injected with BrdU.

Specificity: This antibody reacts with Bromodeoxyuridine (BrdU) in single stranded DNA (produced by partial denaturation of double stranded DNA), BrdU coupled to a protein carrier, as well as free BrdU.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0378-C.1	0.1 ml
RA0378-C.5	0.5 ml

**Bromodeoxyuridine (BrdU) (Proliferation Marker);  
Clone BRD.3 (Concentrate)**

Species: Mouse

Immunogen: Bromodeoxyuridine (BrdU) conjugated to BSA

Clone: BRD.3

Isotype: IgG1

Species Reactivity: All species

Positive Control: Cells grown in presence of BrdU or tissues from experimental animals injected with BrdU

Specificity: This antibody reacts with Bromodeoxyuridine (BrdU) in single stranded DNA (produced by partial denaturation of double stranded DNA), BrdU coupled to a protein carrier, as well as free BrdU.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0377-C.1	0.1 ml
RA0377-C.5	0.5 ml

**Bromodeoxyuridine (BrdU) (Proliferation Marker);  
Clone BRD469 (Concentrate)**

Species: Mouse

Immunogen: Bromodeoxyuridine (BrdU) conjugated to KLH

Clone: BRD469

Isotype: IgG1

Species Reactivity: All species

Positive Control: Cells grown in presence of BrdU or tissues from experimental animals injected with BrdU

Specificity: This antibody reacts with Bromodeoxyuridine (BrdU) in single stranded DNA (produced by partial denaturation of double stranded DNA), BrdU coupled to a protein carrier, as well as free BrdU.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0372-C.1	0.1 ml
RA0372-C.5	0.5 ml

**Bromodeoxyuridine (BrdU) (Proliferation Marker);  
Clone BRD494 (Concentrate)**

Species: Mouse

Immunogen: Bromodeoxyuridine (BrdU) conjugated to KLH

Clone: BRD494

Isotype: IgG1

Species Reactivity: All species

Positive Control: Cells grown in presence of BrdU or tissues from experimental animals injected with BrdU

Specificity: This antibody reacts with Bromodeoxyuridine (BrdU) in single stranded DNA (produced by partial denaturation of double stranded DNA), BrdU coupled to a protein carrier, as well as free BrdU.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0374-C.1	0.1 ml
RA0374-C.5	0.5 ml

**Bromodeoxyuridine (BrdU) (Proliferation Marker);  
Clone BU20a (Concentrate)**

Species: Mouse

Immunogen: Bromodeoxyuridine (BrdU) conjugated to KLH

Clone: BU20a

Isotype: IgG1

Species Reactivity: All species

Positive Control: Cells grown in presence of BrdU or tissues from experimental animals injected with BrdU

Specificity: This antibody reacts with Bromodeoxyuridine (BrdU) in single stranded DNA (produced by partial denaturation of double stranded DNA), BrdU coupled to a protein carrier, as well as free BrdU.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0375-C.1	0.1 ml
RA0375-C.5	0.5 ml

**Bromodeoxyuridine (BrdU) (Proliferation Marker);  
Clone MoBu-1 (Concentrate)**

Species: Mouse

Immunogen: Bromodeoxyuridine (BrdU) conjugated to hemocyanine (isolated from *Helix pomatia*)

Clone: MoBu-1

Isotype: IgG1

Species Reactivity: All species

Positive Control: Cells grown in presence of BrdU or tissues from experimental animals injected with BrdU

Specificity: This antibody reacts with Bromodeoxyuridine (BrdU) in single stranded DNA (produced by partial denaturation of double stranded DNA), BrdU coupled to a protein carrier, as well as free BrdU.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0376-C.1	0.1 ml
RA0376-C.5	0.5 ml

**CA19-9/Sialyl Lewisa (GI Tumor Marker); Clone 121SLE (Concentrate)**

Species: Mouse

Immunogen: Precipitin lines obtained after immuno-diffusion using monoclonal antibody 116-NS-19-9 and mucins isolated from an ovarian cyst of a Lewis A+B- patient (0Le).

Clone: 121SLE

Isotype: IgM, kappa

Species Reactivity: Human. Others not known.

Positive Control: Stomach

Specificity: CA19-9, a carbohydrate epitope expressed on a high MW (>400kDa) mucin glycoprotein, is a sialyl Lewis a structure which is synthesized from type 1 blood group precursor chains and is present in individuals expressing the Lewis a and/or Lewis b blood group antigens.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0397-C.1	0.1 ml
RA0397-C.5	0.5 ml

**Caldesmon, HMW (h-Caldesmon) (Smooth Muscle Marker); Clone CALD1/820 & h-CALD (Concentrate)**

Species: Mouse

Immunogen: Recombinant human CALD1 protein (CALD1/820); Crude human uterus extract (h-CALD)

Clone: CALD1/820 & h-CALD

Isotype: IgG1, kappa (CALD1/820); IgG1, kappa (h-CALD)

Species Reactivity: Human. Others not known.

Positive Control: Uterus

Specificity: Recognizes a protein of 150kDa, which is identified as the high molecular weight variant of Caldesmon. This MAb recognizes only the 150kDa variant (h-Caldesmon) in Western blots of human aortic media extracts and is unreactive with fibroblast extracts from cultivated human foreskin.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0030-C.1	0.1 ml
RA0030-C.5	0.5 ml

**Caldesmon, HMW (h-Caldesmon) (Smooth Muscle Marker); Clone CALD1/820 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human CALD1 protein

Clone: CALD1/820

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: Uterus

Specificity: Recognizes a protein of 150kDa, which is identified as the high molecular weight variant of Caldesmon. This MAb recognizes only the 150kDa variant (h-Caldesmon) in Western blots of human aortic media extracts and is unreactive with fibroblast extracts from cultivated human foreskin.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0029-C.1	0.1 ml
RA0029-C.5	0.5 ml

**Caldesmon, HMW (h-Caldesmon) (Smooth Muscle Marker); Clone h-CALD (Concentrate)**

Species: Mouse

Immunogen: Crude human uterus extract

Clone: h-CALD

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: Uterus

Specificity: Recognizes a protein of 150kDa, which is identified as the high molecular weight variant of Caldesmon. This MAb recognizes only the 150kDa variant (h-caldesmon) in Western blots of human aortic media extracts and is unreactive with fibroblast extracts from cultivated human foreskin.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0028-C.1	0.1 ml
RA0028-C.5	0.5 ml

**Calponin-1 (Smooth Muscle Marker); Clone CALP (Concentrate)**

Species: Mouse

Immunogen: Crude human uterus extract

Clone: CALP

Isotype: IgG1, kappa

Species Reactivity: Human and Rat. Others not known.

Positive Control: Myoepithelial cells in breast ducts.

Specificity: In Western blotting, this antibody reacts with only the 34kDa form of calponin in extracts of human aortic medial smooth muscle and is unreactive with fibroblast extracts of cultivated human foreskin.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0099-C.1	0.1 ml
RA0099-C.5	0.5 ml

**Calponin-1 (Smooth Muscle Marker); Clone CNN1/832 & CALP (Concentrate)**

Species: Mouse

Immunogen: Recombinant human CNN1 protein (CNN1/832);

Crude human uterus extract (CALP)

Clone: CNN1/832 & CALP

Isotype: IgG1, kappa (CNN1/832); IgG1, kappa (CALP)

Species Reactivity: Human and Rat. Others not known.

Positive Control: Myoepithelial cells in breast ducts.

Specificity: In Western blotting, this antibody reacts with only the 34kDa form of calponin in extracts of human aortic medial smooth muscle and is unreactive with fibroblast extracts of cultivated human foreskin.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0101-C.1	0.1 ml
RA0101-C.5	0.5 ml

**Calponin-1 (Smooth Muscle Marker); Clone CNN1/832 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human CNN1 protein  
 Clone: CNN1/832  
 Isotype: IgG1, kappa  
 Species Reactivity: Human and Rat. Others not known.  
 Positive Control: Myoepithelial cells in breast ducts.  
 Specificity: In Western blotting, this antibody reacts with only the 34kDa form of calponin in extracts of human aortic medial smooth muscle and is unreactive with fibroblast extracts of cultivated human foreskin.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0100-C.1	0.1 ml
RA0100-C.5	0.5 ml

**Calponin-1 (Smooth Muscle Marker); Clone SPM169 (Concentrate)**

Species: Mouse.  
 Immunogen: Crude human uterus extract.  
 Clone: SPM169  
 Isotype: IgG1, kappa.  
 Species Reactivity: Reacts with human and rat. Others not known.  
 Positive Control: Myoepithelial cells in breast ducts.  
 Specificity: In Western blotting, this monoclonal antibody reacts with only the 34kDa form of calponin in extracts of human aortic medial smooth muscle and is unreactive with fibroblast extracts of cultivated human foreskin.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0532-C.1	0.1 ml
RA0532-C.5	0.5 ml
RA0532-C1	1 ml

**Calreticulin Mutation / CALR; Clone CAL2 (Concentrate)**

Species: Mouse  
 Immunogen: C-neotermus of mutated CALR.  
 Clone: CAL2  
 Isotype: IgG2a  
 Species Reactivity: Human  
 Positive Control: Megakaryocytes from CALR mutated PMNs.  
 Specificity: Human CALR protein expressed by all types of Exon 9 CALR mutations (deletion/insertion in 19p 13.3-13.2 of).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
DIA-CAL-100	0.1 ml
DIA-CAL-250	0.25 ml

**Carcinoembryonic Antigen (CEA) / CD66 ; Clone SPM506 (Concentrate)**

Species: Mouse  
 Immunogen: Human colon carcinoma extract  
 Clone: SPM506  
 Isotype: IgG1, kappa  
 Species Reactivity: Human and Monkey. Others not known.  
 Positive Control: MCF7 or 293T cells. Colon carcinoma.  
 Specificity: This antibody recognizes proteins of 80-200kDa, identified as different members of the CEA family. This MAb does not react with nonspecific cross-reacting antigen (NCA) and with human polymorphonuclear leucocytes. It shows no reaction with a variety of normal tissues and is suitable for staining of formalin/paraffin tissues.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0489-C.1	0.1 ml
RA0489-C.5	0.5 ml
RA0489-C1	1 ml

**Carcinoembryonic Antigen (CEA) / CD66 ; Clone SPM541 (Concentrate)**

Species: Mouse  
 Immunogen: Human colon carcinoma extract  
 Clone: SPM541  
 Isotype: IgG1, kappa  
 Species Reactivity: Human and Monkey. Others not known.  
 Positive Control: MCF7 or 293T cells. Colon carcinoma.  
 Specificity: This antibody recognizes proteins of 80-200kDa, identified as different members of CEA family. This MAb does not react with nonspecific cross-reacting antigen (NCA) and with human polymorphonuclear leucocytes. It shows no reaction with a variety of normal tissues and is suitable for staining of formalin/paraffin tissues.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0488-C.1	0.1 ml
RA0488-C.5	0.5 ml
RA0488-C1	1 ml

**Carcinoembryonic Antigen (CEA) / CD66; Clone C66/1009 (Concentrate)**

Species: Mouse  
 Immunogen: Human recombinant CEA protein  
 Clone: C66/1009  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: MCF7 or 293T cells. Colon carcinoma.  
 Specificity: This antibody recognizes proteins of 80-200kDa, identified as different members of the CEA family. This antibody does not react with nonspecific cross-reacting antigen (NCA) and with human polymorphonuclear leucocytes. It shows no reaction with a variety of normal tissues and is suitable for staining of formalin/paraffin tissues.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0432-C.1	0.1 ml
RA0432-C.5	0.5 ml
RA0432-C1	1 ml

**Carcinoembryonic Antigen (CEA) / CD66; Clone C66/1260 (Concentrate)**

Species: Mouse  
 Immunogen: Purified human CEA protein  
 Clone: C66/1260  
 Isotype: IgG2b, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: MCF7 or 293T cells. Colon carcinoma.  
 Specificity: This antibody recognizes proteins of 80-200kDa, identified as different members of CEA family. This MAb reacts with nonspecific cross-reacting antigen (NCA). It shows no reaction with a variety of normal tissues and is suitable for staining of formalin/paraffin tissues.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0481-C.1	0.1 ml
RA0481-C.5	0.5 ml
RA0481-C1	1 ml

**Carcinoembryonic Antigen (CEA) / CD66; Clone C66/195 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant full-length human CEA protein  
 Clone: C66/195  
 Isotype: IgG1, kappa  
 Species Reactivity: Human and Monkey. Others not known.  
 Positive Control: MCF7 or 293T cells. Colon carcinoma.  
 Specificity: This antibody recognizes proteins of 80-200kDa, identified as different members of CEA family. This MAb reacts with nonspecific cross-reacting antigen (NCA) and shows a cross-reaction with human polymorphonuclear leucocytes. It shows no reaction with a variety of normal tissues and is suitable for staining of formalin/paraffin tissues.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0485-C.1	0.1 ml
RA0485-C.5	0.5 ml
RA0485-C1	1 ml

**Carcinoembryonic Antigen (CEA) / CD66; Clone C66/261 (Concentrate)**

Species: Mouse  
 Immunogen: Human recombinant CEA protein  
 Clone: C66/261  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: MCF7 or 293T cells. Colon carcinoma.  
 Specificity: This antibody recognizes proteins of 80-200kDa, identified as different members of the CEA family. This antibody does not react with nonspecific cross-reacting antigen (NCA) and with human polymorphonuclear leucocytes. It shows no reaction with a variety of normal tissues and is suitable for staining of formalin/paraffin tissues.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0083-C.1	0.1 ml
RA0083-C.5	0.5 ml

**Carcinoembryonic Antigen (CEA) / CD66; Clone CEA31 (Concentrate)**

Species: Mouse  
 Immunogen: Human colon carcinoma extract  
 Clone: CEA31  
 Isotype: IgG1, kappa  
 Species Reactivity: Human and Monkey. Others not known.  
 Positive Control: MCF7 or 293T cells. Colon carcinoma.  
 Specificity: This antibody recognizes proteins of 80-200kDa, identified as different members of the CEA family. This antibody does not react with nonspecific cross-reacting antigen (NCA) and with human polymorphonuclear leucocytes. It shows no reaction with a variety of normal tissues and is suitable for staining of formalin/paraffin tissues.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0084-C.1	0.1 ml
RA0084-C.5	0.5 ml

**Carcinoembryonic Antigen (CEA) / CD66; Clone COL-1 (Concentrate)**

Species: Mouse  
 Immunogen: Human colon carcinoma extract  
 Clone: COL-1  
 Isotype: IgG2a, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: MCF7 or 293T cells. Colon carcinoma.  
 Specificity: This antibody recognizes proteins of 80-200kDa, identified as different members of the CEA family. This antibody does not react with nonspecific cross-reacting antigen (NCA) and with human polymorphonuclear leucocytes. It shows no reaction with a variety of normal tissues and is suitable for staining of formalin/paraffin tissues.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0082-C.1	0.1 ml
RA0082-C.5	0.5 ml

**Carcinoembryonic Antigen (CEA) / CD66; Clone COL-1, CEA31 & C66/261 (Concentrate)**

Species: Mouse  
 Immunogen: Human colon carcinoma extract (COL-1 & CEA31); CEA recombinant protein (C66/261)  
 Clone: COL-1, CEA31 & C66/261  
 Isotype: IgG2a (COL-1); IgG1 (CEA31 & C66/261)  
 Species Reactivity: Human. Others not known.  
 Positive Control: MCF7 or 293T cells. Colon carcinoma.  
 Specificity: This monoclonal antibody recognizes proteins of 80-200kDa, identified as different members of the CEA family. It does not react with nonspecific cross-reacting antigen (NCA) and with human polymorphonuclear leucocytes. It shows no reaction with a variety of normal tissues and is suitable for staining of formalin/paraffin tissues.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0085-C.1	0.1 ml
RA0085-C.5	0.5 ml

**Carcinoembryonic Antigen (CEA) / CD66; Clone SPM330 (Concentrate)**

Species: Mouse  
 Immunogen: Purified human CEA protein  
 Clone: SPM330  
 Isotype: IgG1, kappa  
 Species Reactivity: Human and Monkey. Others not known.  
 Positive Control: MCF7 or 293T cells. Colon carcinoma  
 Specificity: This antibody recognizes proteins of 80-200kDa, identified as different members of CEA family, and is re-expressed in increased amounts in intestinal carcinomas and several other tumors. This MAb reacts with nonspecific cross-reacting antigen (NCA) and shows a cross-reaction with human polymorphonuclear leucocytes. It shows no reaction with a variety of normal tissues and is suitable for staining of formalin/paraffin tissues.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0486-C.1	0.1 ml
RA0486-C.5	0.5 ml
RA0486-C1	1 ml

**Carcinoembryonic Antigen (CEA) / CD66; Clone SPM551 (Concentrate)**

Species: Mouse  
 Immunogen: Human recombinant CEA protein  
 Clone: SPM551  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: MCF7 or 293T cells. Colon Carcinoma.  
 Specificity: This antibody recognizes proteins of 80-200kDa, identified as different members of CEA family. This MAb does not react with nonspecific cross-reacting antigen (NCA) and with human polymorphonuclear leucocytes. It shows no reaction with a variety of normal tissues and is suitable for staining of formalin/paraffin tissues.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0487-C.1	0.1 ml
RA0487-C.5	0.5 ml
RA0487-C1	1 ml

**Carcinoembryonic Antigen (CEA) / CD66; Clone SPM584 (Concentrate)**

Species: Mouse  
 Immunogen: Human colon carcinoma extract  
 Clone: SPM584  
 Isotype: IgG2a, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: MCF7 or 293T cells. Colon carcinoma  
 Specificity: This antibody recognizes proteins of 80-200kDa, identified as different members of CEA family. This MAb does not react with nonspecific cross-reacting antigen (NCA) and with human polymorphonuclear leucocytes. It shows no reaction with a variety of normal tissues and is suitable for staining of formalin/paraffin tissues.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0484-C.1	0.1 ml
RA0484-C.5	0.5 ml
RA0484-C1	1 ml

**Carcinoembryonic Antigen, pan (CEA) / CD66; Clone Cocktail (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant full-length human CEA protein (C66/195; C66/261; C66/1009 & C66/1030)  
 Clone: C66/195 & C66/1009 & C66/1030  
 Isotype: IgGs  
 Species Reactivity: Human. Others not known.  
 Positive Control: MCF7 or 293T cells. Colon carcinoma.  
 Specificity: This antibody recognizes proteins of 80-200kDa, identified as different members of CEA family. This antibody does not react with nonspecific cross-reacting antigen (NCA) and with human polymorphonuclear leucocytes. It shows no reaction with a variety of normal tissues and is suitable for staining of formalin/paraffin tissues.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0491-C.1	0.1 ml
RA0491-C.5	0.5 ml
RA0491-C1	1 ml

**Catenin, beta (p120); Clone 15B8 (Concentrate)**

Species: Mouse.  
 Immunogen: Recombinant chicken beta-catenin.  
 Clone: 15B8  
 Isotype: IgG1, kappa.  
 Species Reactivity: Reacts with human, mouse, rat, cow, dog, and chicken. Others not known.  
 Positive Control: HeLa or MCF-7 cells. Breast carcinoma.  
 Specificity: Recognizes a 92kDa protein known as beta-Catenin.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0544-C.1	0.1 ml
RA0544-C.5	0.5 ml
RA0544-C1	1 ml

**Catenin, beta (p120); Clone 5H10 (Concentrate)**

Species: Mouse.  
 Immunogen: Fusion protein consisting of the maltose binding protein fused to a 100 amino acid segment of the C-terminus of chicken beta-Catenin.  
 Clone: 5H10  
 Isotype: IgG1, kappa.  
 Species Reactivity: Reacts with human, mouse, and chicken. Others not known.  
 Positive Control: HeLa or MCF-7 cells. Breast carcinoma.  
 Specificity: Recognizes a 92kDa protein which is identified as beta-Catenin.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0545-C.1	0.1 ml
RA0545-C.5	0.5 ml
RA0545-C1	1 ml



**Catenin, beta (p120); Clone 6F9 (Concentrate)**

Species: Mouse.  
 Immunogen: Recombinant chicken beta-catenin.  
 Clone: 6F9  
 Isotype: IgG1, kappa.  
 Species Reactivity: Reacts with human, cow, dog, and chicken.  
 Others not known.  
 Positive Control: HeLa or MCF-7 cells. Breast carcinoma.  
 Specificity: This monoclonal antibody recognizes a protein of 92kDa, which is identified as beta-catenin. It shows no cross-reaction with gamma-catenin (also known as plakoglobin).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0546-C.1	0.1 ml
RA0546-C.5	0.5 ml
RA0546-C1	1 ml

**Catenin, beta (p120); Clone CTNNB1/1507 (Concentrate)**

Species: Mouse.  
 Immunogen: Recombinant human full-length beta-Catenin (p120) protein fragment.  
 Clone: CTNNB1/1507.  
 Isotype: IgG1, kappa.  
 Species Reactivity: Reacts with human, mouse, and rat. Others not known.  
 Positive Control: HeLa or MCF-7 cells. Breast carcinoma.  
 Specificity: Recognizes a 92kDa protein known as beta-Catenin.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0548-C.1	0.1 ml
RA0548-C.5	0.5 ml
RA0548-C1	1 ml

**Catenin, beta (p120); Clone CTNNB1/1508 (Concentrate)**

Species: Mouse.  
 Immunogen: Recombinant human full-length beta-Catenin (p120) protein fragment.  
 Clone: CTNNB1/1508.  
 Isotype: IgG1, kappa.  
 Species Reactivity: Reacts with human, mouse, and rat. Others not known.  
 Positive Control: HeLa or MCF-7 cells. Breast carcinoma.  
 Specificity: Recognizes a protein of 92kDa known as beta-Catenin.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0549-C.1	0.1 ml
RA0549-C.5	0.5 ml
RA0549-C1	1 ml

**Catenin, beta (p120); Clone CTNNB1/1509 (Concentrate)**

Species: Mouse.  
 Immunogen: Recombinant human full-length beta-Catenin (p120) protein fragment.  
 Clone: CTNNB1/1509.  
 Isotype: IgG1, kappa.  
 Species Reactivity: Reacts with human, mouse, and rat. Others not known.  
 Positive Control: HeLa or MCF-7 cells. Breast carcinoma.  
 Specificity: Recognizes a protein of 92kDa known as beta-Catenin.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0550-C.1	0.1 ml
RA0550-C.5	0.5 ml
RA0550-C1	1 ml

**CD10 (Membrane Metalloendopeptidase); Clone 56C6 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human CD10 protein fragment.  
 Clone: 56C6  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Rat. Others not tested.  
 Positive Control: Kidney, small intestine, or tonsil.  
 Specificity: Recognizes a 100kDa glycoprotein, identified as CD10, also known as Common Acute Lymphatic Leukemia Antigen (CALLA).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0461-C.1	0.1 ml
RA0461-C.5	0.5 ml
RA0461-C1	1 ml

**CD100 (Semaphorin-4D); Clone 133-1C6 (Concentrate)**

Species: Mouse  
 Immunogen: PHA stimulated human peripheral blood lymphocytes.  
 Clone: 133-1C6  
 Isotype: IgM, kappa  
 Species Reactivity: Human and Baboon. Does not react with horse. Others not-tested.  
 Positive Control: Daudi, Raji, HUT-78, Kg1a, U937, and human lymphocytes. Human tonsil and lymph node.  
 Specificity: Recognizes a homodimeric protein comprised of 50kDa subunits, identified as CD100 (Workshop VI; Code N-L026).  
 Status:RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0492-C.1	0.1 ml
RA0492-C.5	0.5 ml
RA0492-C1	1 ml



**CD100 (Semaphorin-4D); Clone A8 (Concentrate)**

Species: Mouse  
 Immunogen: PHA stimulated human peripheral blood lymphocytes  
 Clone: A8  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Monkey and Mouse. Others not tested.  
 Positive Control: Daudi, Raji, HUT-78, Kg1a, U937, and human lymphocytes. Human tonsils and lymph nodes.  
 Specificity: Recognizes a homodimeric protein comprised of 50kDa subunits, identified as CD100.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0493-C.1	0.1 ml
RA0493-C.5	0.5 ml
RA0493-C1	1 ml

**CD106 / VCAM1 (Activated Endothelial Cell Marker); Clone 1.4C3 (Concentrate)**

Species: Mouse  
 Immunogen: Stimulated human umbilical vein endothelial cells (HUVEC)  
 Clone: 1.4C3  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Human placenta or tonsil.  
 Specificity: Recognizes a protein of 110kDa, identified as CD106 (also known as vascular cell adhesion molecule-1 (VCAM-1) and INCAM-100).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0335-C.1	0.1 ml
RA0335-C.5	0.5 ml

**CD106 / VCAM1 (Activated Endothelial Cell Marker); Clone VCAM1/843 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human VCAM1 protein  
 Clone: VCAM1/843  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Human placenta or tonsil.  
 Specificity: Recognizes a protein of 110kDa, identified as CD106 (also known as vascular cell adhesion molecule-1 (VCAM-1) and INCAM-100).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0336-C.1	0.1 ml
RA0336-C.5	0.5 ml

**CD117/c-Kit (Marker for Gastrointestinal Stromal Tumors); Clone C117/370 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human CD117 protein  
 Clone: C117/370  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Gastrointestinal Stromal Tumor (GIST) or testicular germ cell tumor. Melanocytes in the basal layer of the epidermis and mast cells in the dermis of normal skin.  
 Specificity: This antibody recognizes a protein of 145kDa, identified as CD117/p145kit.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0168-C.1	0.1 ml
RA0168-C.5	0.5 ml

**CD147 / EMMPRIN / Basigin (BSG); Clone BSG/963 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human Basigin (BSG) or CD147 protein  
 Clone: BSG/963  
 Isotype: IgG1  
 Species Reactivity: Human. Others not known.  
 Positive Control: HSB2 cells. Renal Cell, Colon or Testicular carcinoma.  
 Specificity: This antibody recognizes an extracellular epitope of human CD147.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0428-C.1	0.1 ml
RA0428-C.5	0.5 ml
RA0428-C1	1 ml

**CD15 / FUT4 (Reed-Sternberg Cell Marker); Clone FUT4/815 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human FUT4 protein  
 Clone: FUT4/815  
 Isotype: IgM, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: U937 cells, Reed-Sternberg's cells in Hodgkin's lymphoma.  
 Specificity: This antibody reacts with a 220 kDa protein, CD15 / FUT4 expressed on Reed-Sternberg cells.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0120-C.1	0.1 ml
RA0120-C.5	0.5 ml

**CD15 / FUT4 (Reed-Sternberg Cell Marker); Clone Leu-M1 (MMA) (Concentrate)**

Species: Mouse  
 Immunogen: U937 histiocytic cell line  
 Clone: Leu-M1 (MMA)  
 Isotype: IgM, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: U937 cells, Reed-Sternberg's cells in Hodgkin's lymphoma.  
 Specificity: This antibody reacts with a 220 kDa protein, CD15 / FUT4 expressed on Reed-Sternberg cells.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0119-C.1	0.1 ml
RA0119-C.5	0.5 ml

**CD1a / HTA1 (Mature Langerhans Cells Marker); Clone C1A/711 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human CD1a protein  
 Clone: C1A/711  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: MOLT-4 cells. Paracortex in a tonsil or a reactive lymph node.  
 Specificity: Anti-CD1a labels Langerhans cell histiocytosis (Histiocytosis X), extranodal histiocytic sarcoma, a subset of T-lymphoblastic lymphoma/leukemia, and interdigitating dendritic cell sarcoma of the lymph node.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0032-C.1	0.1 ml
RA0032-C.5	0.5 ml

**CD1a / HTA1 (Mature Langerhans Cells Marker); Clone O10 & C1A/711 (Concentrate)**

Species: Mouse  
 Immunogen: Human thymus cells (O10); Recombinant human CD1a protein (C1A/711)  
 Clone: O10 & C1A/711  
 Isotype: IgG1, kappa (O10) & IgG1, kappa (C1A/711)  
 Species Reactivity: Human. Others not known.  
 Positive Control: MOLT-4 cells. Paracortex in a tonsil or a reactive lymph node.  
 Specificity: Anti-CD1a labels Langerhans cell histiocytosis (Histiocytosis X), extranodal histiocytic sarcoma, a subset of T-lymphoblastic lymphoma/leukemia, and interdigitating dendritic cell sarcoma of the lymph node.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0033-C.1	0.1 ml
RA0033-C.5	0.5 ml

**CD1a / HTA1 (Mature Langerhans Cells Marker); Clone O10 (Concentrate)**

Species: Mouse  
 Immunogen: Human thymus cells  
 Clone: O10  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: MOLT-4 cells. Paracortex in a tonsil or a reactive lymph node.  
 Specificity: Anti-CD1a labels Langerhans cell histiocytosis (Histiocytosis X), extranodal histiocytic sarcoma, a subset of T-lymphoblastic lymphoma/leukemia, and interdigitating dendritic cell sarcoma of the lymph node.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0031-C.1	0.1 ml
RA0031-C.5	0.5 ml

**CD20 / MS4A1 (B-Cell Marker); Clone IGEL/773 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human MS4A1 protein  
 Clone: IGEL/773  
 Isotype: IgG2a, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Daudi, Raji, and U266, and human lymphocytes, lymph nodes and tonsils.  
 Specificity: Recognizes a protein of 30-33kDa, which is identified as CD20.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0046-C.1	0.1 ml
RA0046-C.5	0.5 ml

**CD20 / MS4A1 (B-Cell Marker); Clone L26 & IGEL/773 (Concentrate)**

Species: Mouse  
 Immunogen: Human tonsil B-cells (L26); Recombinant human MS4A1 protein (IGEL/773)  
 Clone: L26 & IGEL/773  
 Isotype: IgG2a, kappa (L26); IgG2a, kappa (IGEL/773)  
 Species Reactivity: Human. Others not known.  
 Positive Control: Daudi, Raji, and U266, and human lymphocytes, lymph nodes and tonsils.  
 Specificity: Recognizes a protein of 30-33kDa, which is identified as CD20. Its epitope is located in the cytoplasmic domain of CD20 and was, therefore, ascribed as CD20cy in the 5th Workshop.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0047-C.1	0.1 ml
RA0047-C.5	0.5 ml

**CD20 / MS4A1 (B-Cell Marker); Clone L26 (Concentrate)**

Species: Mouse

Immunogen: Human tonsil B-cells

Clone: L26

Isotype: IgG2a, kappa

Species Reactivity: Human, Baboon, and Monkey. Does not react with Cow, Cog, Pig, and Rat. Others not known.

Positive Control: Daudi, Raji, and U266, and human lymphocytes, lymph nodes and tonsils.

Specificity: Recognizes a protein of 30-33kDa, which is identified as CD20. Its epitope is located in the cytoplasmic domain of CD20 and was, therefore, ascribed as CD20cy in the 5th Workshop.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0045-C.1	0.1 ml
RA0045-C.5	0.5 ml

**CD26 (DPP IV / ADA-Binding Protein); Clone 134-2C2 (Concentrate)**

Species: Mouse.

Immunogen: A synthetic peptide from the amino terminal region of CD26.

Clone: 134-2C2.

Isotype: IgM, kappa.

Species Reactivity: Reacts with human. Others not known.

Positive Control: U-87 MG (Human glioblastoma astrocytoma), Ramos (Human Burkitt's lymphoma, HEP-G2 cells, and lymphocytes. Lymph nodes and tonsils.

Specificity: Recognizes a glycoprotein of 110kDa, identified as CD26.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0561-C.1	0.1 ml
RA0561-C.5	0.5 ml
RA0561-C1	1 ml

**CD26 (DPP IV / ADA-Binding Protein); Clone 202.36 (Concentrate)**

Species: Mouse.

Immunogen: Human T-cell clone.

Clone: 202.36.

Isotype: IgG2b, kappa.

Species Reactivity: Reacts with human and rat. Does not react with pig and sheep. Others not known.

Positive Control: YT, HEP-G2 cells, and lymphocytes. Lymph nodes and tonsils.

Specificity: Recognizes a glycoprotein of 110kDa, identified as CD26 (Workshop VI; Code: N-L039). It is an atypical serine protease belonging to the prolyl oligopeptidase family. In Western blotting, this monoclonal antibody reacts with only glycosylated CD26, but not with the deglycosylated form. It does not prevent ADA binding to CD26.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0559-C.1	0.1 ml
RA0559-C.5	0.5 ml
RA0559-C1	1 ml

**CD26 (DPP IV / ADA-Binding Protein); Clone DPP4/910 (Concentrate)**

Species: Mouse.

Immunogen: Recombinant human DPP4 protein.

Clone: DPP4/910.

Isotype: IgG2b, kappa.

Species Reactivity: Reacts with human and rat. Does not react with pig and sheep. Others not known.

Positive Control: U-87 MG (Human glioblastoma astrocytoma), Ramos (Human Burkitt's lymphoma, HEP-G2 cells, and lymphocytes. Lymph nodes and tonsils.

Specificity: Recognizes a glycoprotein of 110kDa, identified as CD26.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0560-C.1	0.1 ml
RA0560-C.5	0.5 ml
RA0560-C1	1 ml

**CD30 / TNFRSF8 (Hodgkin & Reed-Sternberg Cell Marker); Clone Ber-H2 & CD30/412 (Concentrate)**

Species: Mouse

Immunogen: Cancer cell line established from a patient with Hodgkin's disease of T-cell lineage (Ber-H2); human CD30 recombinant protein (CD30/412)

Clone: Ber-H2 &amp; CD30/412

Isotype: IgG1, kappa (Ber-H2); IgG1, kappa (CD30/412)

Species Reactivity: Human. Others not known.

Positive Control: Hodgkin's lymphoma

Specificity: Recognizes a single chain glycoprotein of 105/120kDa, identified as CD30/Ki-1. This Mab distinguishes large cell lymphomas derived from activated lymphoid cells from histiocytic malignancies and lymphomas derived from resting and precursor lymphoid cells or from anaplastic carcinomas.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0051-C.1	0.1 ml
RA0051-C.5	0.5 ml

**CD30 / TNFRSF8 (Hodgkin & Reed-Sternberg Cell Marker); Clone Ber-H2 (Concentrate)**

Species: Mouse

Immunogen: Cancer cell line established from a patient with Hodgkin's disease of T-cell lineage

Clone: Ber-H2

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: Hodgkin's lymphoma

Specificity: Recognizes a single chain glycoprotein of 105/120kDa, identified as CD30/Ki-1. This Mab distinguishes large cell lymphomas derived from activated lymphoid cells from histiocytic malignancies and lymphomas derived from resting and precursor lymphoid cells or from anaplastic carcinomas.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0049-C.1	0.1 ml
RA0049-C.5	0.5 ml

**CD30 / TNFRSF8 (Hodgkin & Reed-Sternberg Cell Marker); Clone CD30/412 (Concentrate)**

Species: Mouse  
 Immunogen: Human CD30 recombinant protein  
 Clone: CD30/412  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Hodgkin's Lymphoma  
 Specificity: Recognizes a single chain glycoprotein of 105/120kDa, identified as CD30/Ki-1. This MAb distinguishes large cell lymphomas derived from activated lymphoid cells from histiocytic malignancies and lymphomas derived from resting and precursor lymphoid cells or from anaplastic carcinomas.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0048-C.1	0.1 ml
RA0048-C.5	0.5 ml

**CD30 / TNFRSF8 (Hodgkin & Reed-Sternberg Cell Marker); Clone Ki-1/779 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human TNFRSF8 protein  
 Clone: Ki-1/779  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Hodgkin's Lymphoma  
 Specificity: Recognizes a single chain glycoprotein of 105/120kDa, identified as CD30/Ki-1. This MAb distinguishes large cell lymphomas derived from activated lymphoid cells from histiocytic malignancies and lymphomas derived from resting and precursor lymphoid cells or from anaplastic carcinomas.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0050-C.1	0.1 ml
RA0050-C.5	0.5 ml

**CD31 (Anti-Mouse); Clone SZ31 (Concentrate)**

Species: Rat  
 Immunogen: Murine amino acid fragment.  
 Clone: SZ31  
 Isotype: IgG2a  
 Species Reactivity: Mouse, Pig. Does not react with Rat or Human.  
 Positive Control: Adult or embryonic mouse endothelial cells.  
 Specificity: Murine CD31 (PECAM-1).  
 Status: RUO  
 Manufactured By: Dianova GmbH

<u>Catalog Number</u>	<u>Volume</u>
DIA-310	0.5 ml

**CD31 / PECAM-1 (Endothelial Cell Marker); Clone 158-2B3 (Concentrate)**

Species: Mouse  
 Immunogen: Stimulated human leukocytes (Workshop VI)  
 Clone: 158-2B3  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Tonsil, Angiosarcoma.  
 Specificity: Anti-CD31 has shown to be highly specific and sensitive for vascular endothelial cells. Staining of nonvascular tumors (excluding hematopoietic neoplasms) is rare. Anti-CD31 reacts with normal, benign, and malignant endothelial cells which make up blood vessel lining.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0262-C.1	0.1 ml
RA0262-C.5	0.5 ml

**CD31 / PECAM-1 (Endothelial Cell Marker); Clone 1A10 (Concentrate)**

Species: Mouse  
 Immunogen: Prokaryotic recombinant fusion protein corresponding to a portion of the extracellular domain downstream of the signal sequence of the CD31 (PECAM-1).  
 Clone: 1A10  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Tonsil, Angiosarcoma.  
 Specificity: Anti-CD31 has shown to be highly specific and sensitive for vascular endothelial cells. Staining of nonvascular tumors (excluding hematopoietic neoplasms) is rare. Anti-CD31 reacts with normal, benign, and malignant endothelial cells which make up blood vessel lining.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0260-C.1	0.1 ml
RA0260-C.5	0.5 ml

**CD31 / PECAM-1 (Endothelial Cell Marker); Clone C31.3 & JC/70A (Concentrate)**

Species: Mouse  
 Immunogen: Human recombinant CD31 protein (C31.3); Membrane preparation of a spleen from a patient with hairy cell leukemia (JC/70A).  
 Clone: C31.3 & JC/70A  
 Isotype: IgG1, kappa (C31.3); IgG1, kappa (JC/70A)  
 Species Reactivity: Human, Cynomolgus Monkey, and Rabbit. Others not known.  
 Positive Control: Tonsil, Angiosarcoma.  
 Specificity: Anti-CD31 has shown to be highly specific and sensitive for vascular endothelial cells. Staining of nonvascular tumors (excluding hematopoietic neoplasms) is rare. Anti-CD31 reacts with normal, benign, and malignant endothelial cells which make up blood vessel lining.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0258-C.1	0.1 ml
RA0258-C.5	0.5 ml

**CD31 / PECAM-1 (Endothelial Cell Marker); Clone C31.3 (Concentrate)**

Species: Mouse  
 Immunogen: Human recombinant CD31 protein  
 Clone: C31.3  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Jurkat, CCRF-CEM or K-562 Cells. Tonsil, Angiosarcoma.  
 Specificity: Anti-CD31 has shown to be highly specific and sensitive for vascular endothelial cells. Staining of nonvascular tumors (excluding hematopoietic neoplasms) is rare. Anti-CD31 reacts with normal, benign, and malignant endothelial cells which make up blood vessel lining.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0257-C.1	0.1 ml
RA0257-C.5	0.5 ml

**CD31 / PECAM-1 (Endothelial Cell Marker); Clone C31.7 (Concentrate)**

Species: Mouse  
 Immunogen: Human recombinant CD31 protein  
 Clone: C31.7  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Cynomolgus Monkey, and Rabbit. Others not known.  
 Positive Control: Jurkat, CCRF-CEM or K-562 Cells. Tonsil, Angiosarcoma.  
 Specificity: Anti-CD31 has shown to be highly specific and sensitive for vascular endothelial cells. Staining of nonvascular tumors (excluding hematopoietic neoplasms) is rare. Anti-CD31 reacts with normal, benign, and malignant endothelial cells which make up blood vessel lining.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0256-C.1	0.1 ml
RA0256-C.5	0.5 ml

**CD31 / PECAM-1 (Endothelial Cell Marker); Clone JC/70A (Concentrate)**

Species: Mouse  
 Immunogen: Membrane preparation of a spleen from a patient with hairy cell leukemia.  
 Clone: JC/70A  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Cynomolgus Monkey, and Rabbit. Others not known.  
 Positive Control: Tonsil, Angiosarcoma.  
 Specificity: Anti-CD31 has shown to be highly specific and sensitive for vascular endothelial cells. Staining of nonvascular tumors (excluding hematopoietic neoplasms) is rare. Anti-CD31 reacts with normal, benign, and malignant endothelial cells which make up blood vessel lining.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0259-C.1	0.1 ml
RA0259-C.5	0.5 ml

**CD31 / PECAM-1 (Endothelial Cell Marker); Clone PECA1/848 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human PECAM1 protein  
 Clone: PECA1/848  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Tonsil, Angiosarcoma.  
 Specificity: Anti-CD31 has shown to be highly specific and sensitive for vascular endothelial cells. Staining of nonvascular tumors (excluding hematopoietic neoplasms) is rare. Anti-CD31 reacts with normal, benign, and malignant endothelial cells which make up blood vessel lining.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0261-C.1	0.1 ml
RA0261-C.5	0.5 ml

**CD34 (Hematopoietic Stem Cell & Endothelial Marker); Clone HPCA1/763 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human HPCA1 protein  
 Clone: HPCA1/763  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: KG-1 cells, Tonsil, or Angiosarcoma.  
 Specificity: This MAb recognizes a single chain, transmembrane, heavily glycosylated protein of 90-120kDa, which is identified as CD34. Anti-CD34 labels > 85% of angiosarcoma and Kaposi's sarcoma, but with a lower specificity.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0053-C.1	0.1 ml
RA0053-C.5	0.5 ml

**CD34 (Hematopoietic Stem Cell & Endothelial Marker); Clone QBEnd/10 & HPCA1/763 (Concentrate)**

Species: Mouse  
 Immunogen: Detergent solubilized vesicular suspension prepared from human term placenta (QBEnd/10); Recombinant human HPCA1 protein (HPCA1/763)  
 Clone: QBEnd/10 & HPCA1/763  
 Isotype: IgG1, kappa (QBEnd/10); IgG1, kappa (HPCA1/763)  
 Species Reactivity: Human. Others not known.  
 Positive Control: KG-1 cells, Tonsil, or Angiosarcoma.  
 Specificity: This monoclonal antibody recognizes a single chain, transmembrane, heavily glycosylated protein of 90-120kDa, which is identified as CD34. Anti-CD34 labels > 85% of angiosarcoma and Kaposi's sarcoma, but with a lower specificity.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0054-C.1	0.1 ml
RA0054-C.5	0.5 ml

**CD34 (Hematopoietic Stem Cell & Endothelial Marker); Clone QBEnd/10 (Concentrate)**

Species: Mouse

Immunogen: Detergent solubilized vesicular suspension prepared from human term placenta

Clone: QBEnd/10

Isotype: IgG1, kappa

Species Reactivity: Human, Cynomolgus Monkey, Rhesus Monkey. Does not react with rat, sheep, cow and dog. Others not known.

Positive Control: KG-1 cells, Tonsil, or Angiosarcoma

Specificity: This MAb recognizes a single chain, transmembrane, heavily glycosylated protein of 90-120kDa, which is identified as CD34. On the basis of differential sensitivity to degradation by specific enzymes, epitopes of monoclonal antibodies to CD34 are classified into three main categories, class I, class II and class III. It is a class II antibody whose epitope is resistant to neuraminidase but sensitive to glycoprotease and chymopapain. Anti-CD34 labels > 85% of angiosarcoma and Kaposi's sarcoma, but with a lower specificity.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0052-C.1	0.1 ml
RA0052-C.5	0.5 ml

**CD35 / CR1 (Follicular Dendritic Cell Marker); Clone CR1/802 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human CR1 protein

Clone: CR1/802

Isotype: IgG1, kappa

Species Reactivity: Human, Baboon, and Monkey. Others not known.

Positive Control: Follicular dendritic cells (FDC) in tonsil.

Specificity: Recognizes a protein of 210-220kDa, which is identified as the complement receptor 1 (CR1)/CD35. This antibody is specific for a site in CR1 that is distal from the C3b-binding site, so that it is unable to block CR1 activity. It is highly specific to CR1 and shows no cross-reaction with CR2. This antibody labels follicular dendritic cells and follicular dendritic cell sarcoma.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0103-C.1	0.1 ml
RA0103-C.5	0.5 ml

**CD35 / CR1 (Follicular Dendritic Cell Marker); Clone E11 (Concentrate)**

Species: Mouse

Immunogen: Intact human monocytes

Clone: E11

Isotype: IgG1, kappa

Species Reactivity: Human, Baboon, Cynomolgus Monkey, Rhesus Monkey. Others not known.

Positive Control: Follicular dendritic cells (FDC) in tonsil.

Specificity: Recognizes a protein of 210-220kDa, which is identified as the complement receptor 1 (CR1)/CD35. This antibody is specific for a site in CR1 that is distal from the C3b-binding site, so that it is unable to block CR1 activity. It is highly specific to CR1 and shows no cross-reaction with CR2. This antibody labels follicular dendritic cells and follicular dendritic cell sarcoma.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0102-C.1	0.1 ml
RA0102-C.5	0.5 ml

**CD43 (T-Cell Marker); Clone 84-3C1 (Concentrate)**

Species: Mouse

Immunogen: Stimulated human leukocytes

Clone: 84-3C1

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: Paracortex in a tonsil or a reactive lymph node.

Specificity: This antibody recognizes a cell surface glycoprotein of 95/115/135kDa (depending upon the extent of glycosylation), identified as CD43 [Workshop IV].

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0299-C.1	0.1 ml
RA0299-C.5	0.5 ml

**CD43 (T-Cell Marker); Clone DF-T1 (Concentrate)**

Species: Mouse

Immunogen: Myeloblastic KG1 cells

Clone: DF-T1

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: Paracortex in a tonsil or a reactive lymph node.

Specificity: This antibody recognizes a cell surface glycoprotein of 95/115/135kDa (depending upon the extent of glycosylation), identified as CD43 [Workshop IV].

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0297-C.1	0.1 ml
RA0297-C.5	0.5 ml

**CD43 (T-Cell Marker); Clone SPN/839 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human SPN protein  
 Clone: SPN/839  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Paracortex in a tonsil or a reactive lymph node.  
 Specificity: This antibody recognizes a cell surface glycoprotein of 95/115/135kDa (depending upon the extent of glycosylation), identified as CD43 [Workshop IV].  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0298-C.1	0.1 ml
RA0298-C.5	0.5 ml

**CD44 / HCAM Std.; Clone 156-3C11 (Concentrate)**

Species: Mouse  
 Immunogen: Stimulated human leukocytes  
 Clone: 156-3C11  
 Isotype: IgG2a, kappa  
 Species Reactivity: Human, Baboon, and Green Monkey. Others not tested.  
 Positive Control: HeLa cells or paracortex in tonsil or lymph node.  
 Specificity: Recognizes a cell surface glycoprotein of 80-95kDa (CD44) on lymphocytes, monocytes, and granulocytes (Leukocyte Typing Workshop V). Its epitope is resistant to digestion by trypsin and chymotrypsin.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0055-C.1	0.1 ml
RA0055-C.5	0.5 ml
RA0055-C1	1 ml

**CD44 / HCAM Std.; Clone HCAM/918 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human HCAM protein  
 Clone: HCAM/918  
 Isotype: IgG2a, kappa  
 Species Reactivity: Human and non-human Primates. Others not tested.  
 Positive Control: HeLa cells or paracortex in tonsil or lymph node.  
 Specificity: Recognizes a cell surface glycoprotein of 80-95kDa (CD44) on lymphocytes, monocytes, and granulocytes (Leukocyte Typing Workshop V). Its epitope is resistant to digestion by trypsin and chymotrypsin.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0056-C.1	0.1 ml
RA0056-C.5	0.5 ml

**CD45 / LCA (Leukocyte Marker); Clone 135-4C5 (Concentrate)**

Species: Mouse  
 Immunogen: Stimulated human leukocytes  
 Clone: 135-4C5  
 Isotype: IgG2b, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Ramos, U-698, or GA-10 cells. Tonsil.  
 Specificity: CD45R, also designated as CD45 and PTPRC, has been identified as a transmembrane glycoprotein broadly expressed among hematopoietic cells. This antibody to CD45 is useful in differential diagnosis of lymphoid tumors from non-hematopoietic undifferentiated neoplasms.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0283-C.1	0.1 ml
RA0283-C.5	0.5 ml

**CD45 / LCA (Leukocyte Marker); Clone 136-4B5 (Concentrate)**

Species: Mouse  
 Immunogen: Stimulated human leukocytes  
 Clone: 136-4B5  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Ramos, U-698, or GA-10 cells. Tonsil.  
 Specificity: CD45R, also designated as CD45 and PTPRC, has been identified as a transmembrane glycoprotein broadly expressed among hematopoietic cells. This antibody to CD45 is useful in differential diagnosis of lymphoid tumors from non-hematopoietic undifferentiated neoplasms.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0284-C.1	0.1 ml
RA0284-C.5	0.5 ml

**CD45 / LCA (Leukocyte Marker); Clone 2B11 & PD7/26 (Concentrate)**

Species: Mouse  
 Immunogen: Isolated neoplastic cells from T-cell lymphoma (2B11); human peripheral blood lymphocytes maintained in T-cell growth factor (PD7/26).  
 Clone: 2B11 & PD7/26  
 Isotype: IgG1, kappa (2B11); IgG1, kappa (PD7/26).  
 Species Reactivity: Human. Others not known.  
 Positive Control: Ramos, U-698, or GA-10 cells. Tonsil.  
 Specificity: This antibody recognizes the CD45 leukocyte common antigen (LCA) family.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0280-C.1	0.1 ml
RA0280-C.5	0.5 ml



**CD45 / LCA (Leukocyte Marker); Clone 2B11 (Concentrate)**

Species: Mouse  
 Immunogen: Isolated neoplastic cells from T-cell lymphoma  
 Clone: 2B11  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Ramos, U-698, or GA-10 cells. Tonsil.  
 Specificity: CD45R, also designated as CD45 and PTPRC, has been identified as a transmembrane glycoprotein broadly expressed among hematopoietic cells. This antibody to CD45 is useful in differential diagnosis of lymphoid tumors from non-hematopoietic undifferentiated neoplasms.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0277-C.1	0.1 ml
RA0277-C.5	0.5 ml

**CD45RA (Leukocyte Marker); Clone 111-1C5 (Concentrate)**

Species: Mouse  
 Immunogen: Stimulated human leukocytes  
 Clone: 111-1C5  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Daudi, Raji, IM9 and human lymphocytes.  
 Human lymph nodes and tonsils.  
 Specificity: This antibody recognizes a protein of 205kDa-220kDa, identified as CD45RA. This antibody reacts with ABC and BC isoforms. CD45RA is expressed on 40-50% of peripheral CD4+ T-cells, 50% of peripheral CD8+ T-cells, B-cells, and leukemic B-cell lines.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0282-C.1	0.1 ml
RA0282-C.5	0.5 ml

**CD45RA (Leukocyte Marker); Clone 158-4D3 (Concentrate)**

Species: Mouse  
 Immunogen: Stimulated human leukocytes  
 Clone: 158-4D3  
 Isotype: IgG2a, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Daudi, Raji, IM9 and human lymphocytes.  
 Human lymph nodes and tonsils.  
 Specificity: This antibody recognizes a protein of 205kDa-220kDa, identified as CD45RA. This antibody reacts with ABC and BC isoforms. CD45RA is expressed on 40-50% of peripheral CD4+ T-cells, 50% of peripheral CD8+ T-cells, B-cells, and leukemic B-cell lines.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0275-C.1	0.1 ml
RA0275-C.5	0.5 ml

**CD45RB (Leukocyte Marker); Clone PD7/26 (Concentrate)**

Species: Mouse  
 Immunogen: Human peripheral blood lymphocytes maintained in T-cell growth factor  
 Clone: PD7/26  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Ramos, U-698, or GA-10 cells. Tonsil.  
 Specificity: CD45R, also designated as CD45 and PTPRC, has been identified as a transmembrane glycoprotein broadly expressed among hematopoietic cells. This antibody to CD45 is useful in differential diagnosis of lymphoid tumors from non-hematopoietic undifferentiated neoplasms.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0279-C.1	0.1 ml
RA0279-C.5	0.5 ml

**CD45RO (T-Cell Marker); Clone T200/797 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human CD45RO protein  
 Clone: T200/797  
 Isotype: IgG2a, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: CCRF-CEM, Jurkat or MOLT-4 cells. Paracortex in a tonsil or a reactive lymph node.  
 Specificity: This antibody recognizes a 180-185kDa protein, identified as an isoform of leukocyte common antigen (CD45RO). This antibody reacts with mature activated T-cells, most thymocytes, and a sub-population of resting T-cells within both CD4 and CD8 subsets. It shows no reactivity with normal B-cells or natural killer cells, but reacts with granulocytes and monocytes.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0281-C.1	0.1 ml
RA0281-C.5	0.5 ml



**CD45RO (T-Cell Marker); Clone UCHL-1 (Concentrate)**

Species: Mouse  
 Immunogen: Cultured human T-cells from an IL-2-dependent T-cell line (CA1)  
 Clone: UCHL-1  
 Isotype: IgG2a, kappa  
 Species Reactivity: Human, Chimpanzee, Common Marmoset. Others not known.  
 Positive Control: CCRF-CEM, Jurkat or MOLT-4 cells. Paracortex in a tonsil or a reactive lymph node.  
 Specificity: This antibody recognizes a 180-185kDa protein, identified as an isoform of leukocyte common antigen (CD45RO) (4th Leucocyte Typing Workshop: Code No. N31). The epitope recognized by this antibody is sensitive to neuraminidase digestion. This antibody reacts with mature activated T-cells, most thymocytes, and a sub-population of resting T-cells within both CD4 and CD8 subsets. It shows no reactivity with normal B-cells or natural killer cells, but reacts with granulocytes and monocytes.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0274-C.1	0.1 ml
RA0274-C.5	0.5 ml

**CD5 (Mantle Cell Lymphoma Marker); Clone C5/473 & CD5/54/F6 (Concentrate)**

Species: Mouse  
 Immunogen: Human CD5 recombinant protein (C5/473); A synthetic peptide from the intracellular region of human CD5 (CD5/54/F6)  
 Clone: C5/473 & CD5/54/F6  
 Isotype: IgG1, kappa (C5/473) & IgG1, kappa (CD5/54/F6)  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T, Ramos, or MOLT-4 Cells. Tonsil.  
 Specificity: Recognizes a 67kDa transmembrane protein, which is identified as CD5. Anti-CD5 does not react with granulocytes or monocytes.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0037-C.1	0.1 ml
RA0037-C.5	0.5 ml

**CD5 (Mantle Cell Lymphoma Marker); Clone C5/473 (Concentrate)**

Species: Mouse  
 Immunogen: Human CD5 recombinant protein  
 Clone: C5/473  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T, Ramos, or MOLT-4 Cells. Tonsil.  
 Specificity: Recognizes a 67kDa transmembrane protein, which is identified as CD5. Anti-CD5 does not react with granulocytes or monocytes.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0034-C.1	0.1 ml
RA0034-C.5	0.5 ml

**CD5 (Mantle Cell Lymphoma Marker); Clone CD5/54/F6 (Concentrate)**

Species: Mouse  
 Immunogen: A synthetic peptide from the intracellular region of human CD5  
 Clone: CD5/54/F6  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T, Ramos, or MOLT-4 Cells. Tonsil.  
 Specificity: Recognizes a 67kDa transmembrane protein, which is identified as CD5. Anti-CD5 does not react with granulocytes or monocytes.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0036-C.1	0.1 ml
RA0036-C.5	0.5 ml

**CD50 / ICAM3; Clone ICAM3/1019 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human ICAM3 protein  
 Clone: ICAM3/1019  
 Isotype: IgG2b, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: HL-60 or THP-1 cells. Lymph node and tonsil.  
 Specificity: This antibody recognizes an N-glycosylated glycoprotein of 120kDa with intra-chain disulfide bonds, identified as CD50 or ICAM-3.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0440-C.1	0.1 ml
RA0440-C.5	0.5 ml
RA0440-C1	1 ml

**CD56 / NCAM1 / NKH1 (Neuronal Cell Marker); Clone 123A8 (56C04) (Concentrate)**

Species: Mouse  
 Immunogen: Membrane preparation of a small cell lung carcinoma  
 Clone: 123A8 (same clone as 56C04)  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Cerebellum, Pancreas, Neuroblastoma.  
 Specificity: This antibody reacts with an extracellular domain of CD56/NCAM. Anti-CD56 recognizes two proteins of the neural cell adhesion molecule, the basic molecule expressed on most neuroectodermally derived tissues and neoplasms (e.g. retinoblastoma, medulloblastomas, astrocytomas, neuroblastomas, and small cell carcinomas). It is also expressed on some mesodermally derived tumors (rhabdomyosarcoma). Anti-CD56 plays an important role in the diagnosis of nodal and nasal NK/T-cell lymphomas.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0238-C.1	0.1 ml
RA0238-C.5	0.5 ml

**CD56 / NCAM1 / NKH1 (Neuronal Cell Marker);  
Clone 123C3.D5 & 123A8 (Concentrate)**

Species: Mouse

Immunogen: Membrane preparation of a small cell lung carcinoma (123C3.D5 &amp; 123A8)

Clone: 123C3.D5 &amp; 123A8

Isotype: IgG1, kappa (123C3.D5); IgG1, kappa (123A8)

Species Reactivity: Human. Others not known.

Positive Control: Cerebellum, Pancreas, Neuroblastoma.

Specificity: This antibody reacts with an extracellular domain of CD56/NCAM. Anti-CD56 recognizes two proteins of the neural cell adhesion molecule, the basic molecule expressed on most neuroectodermally derived tissues and neoplasms (e.g. retinoblastoma, medulloblastomas, astrocytomas, neuroblastomas, and small cell carcinomas). It is also expressed on some mesodermally derived tumors (rhabdomyosarcoma). Anti-CD56 plays an important role in the diagnosis of nodal and nasal NK/T-cell lymphomas.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0239-C.1	0.1 ml
RA0239-C.5	0.5 ml

**CD56 / NCAM1 / NKH1 (Neuronal Cell Marker);  
Clone 123C3.D5 (Concentrate)**

Species: Mouse

Immunogen: Membrane preparation of a small cell lung carcinoma

Clone: 123C3.D5

Isotype: IgG1, kappa

Species Reactivity: Human, Rat, and Zebrafish. Others not known.

Positive Control: Cerebellum, Pancreas, Neuroblastoma.

Specificity: This antibody reacts with an extracellular domain of CD56/NCAM. Anti-CD56 recognizes two proteins of the neural cell adhesion molecule, the basic molecule expressed on most neuroectodermally derived tissues and neoplasms (e.g. retinoblastoma, medulloblastomas, astrocytomas, neuroblastomas, and small cell carcinomas). It is also expressed on some mesodermally derived tumors (rhabdomyosarcoma). Anti-CD56 plays an important role in the diagnosis of nodal and nasal NK/T-cell lymphomas.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0237-C.1	0.1 ml
RA0237-C.5	0.5 ml

**CD56 / NCAM1 / NKH1 (Neuronal Cell Marker);  
Clone NKH1/784 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human NCAM1 protein

Clone: NKH1/784

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: Cerebellum, Pancreas, Neuroblastoma.

Specificity: This antibody reacts with an extracellular domain of CD56/NCAM. Anti-CD56 recognizes two proteins of the neural cell adhesion molecule, the basic molecule expressed on most neuroectodermally derived tissues and neoplasms (e.g. retinoblastoma, medulloblastomas, astrocytomas, neuroblastomas, and small cell carcinomas). It is also expressed on some mesodermally derived tumors (rhabdomyosarcoma). Anti-CD56 plays an important role in the diagnosis of nodal and nasal NK/T-cell lymphomas.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0240-C.1	0.1 ml
RA0240-C.5	0.5 ml

**CD56 / NCAM1 / NKH1 (Neuronal Cell Marker);  
Clone NKH1/795 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human NCAM1 protein

Clone: NKH1/795

Isotype: IgG1, kappa

Species Reactivity: Human, Rat and Zebrafish. Others not known.

Positive Control: Cerebellum, Pancreas, Neuroblastoma.

Specificity: This antibody reacts with an extracellular domain of CD56/NCAM. Anti-CD56 recognizes two proteins of the neural cell adhesion molecule, the basic molecule expressed on most neuroectodermally derived tissues and neoplasms (e.g. retinoblastoma, medulloblastomas, astrocytomas, neuroblastomas, and small cell carcinomas). It is also expressed on some mesodermally derived tumors (rhabdomyosarcoma). Anti-CD56 plays an important role in the diagnosis of nodal and nasal NK/T-cell lymphomas.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0241-C.1	0.1 ml
RA0241-C.5	0.5 ml

**CD57 / B3GAT1 (Natural Killer Cell Marker); Clone  
HNK-1 & NK-1 (Concentrate)**

Species: Mouse

Immunogen: Human peripheral blood mononuclear cells (HNK-1 &amp; NK-1)

Clone: HNK-1 &amp; NK-1

Isotype: IgM, kappa (HNK-1 &amp; NK-1)

Species Reactivity: Human. Does not react with Rat. Others not known.

Positive Control: Lymph node or tonsil.

Specificity: Anti-CD57 marks a subset of lymphocytes known as natural killer (NK) cells. Anti-CD57 also stains neuroendocrine cells and their derived tumors, including carcinoid tumors and medulloblastoma.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0357-C.1	0.1 ml
RA0357-C.5	0.5 ml

**CD57 / B3GAT1 (Natural Killer Cell Marker); Clone HNK-1 or Leu-7 (Concentrate)**

Species: Mouse  
 Immunogen: Human peripheral blood mononuclear cells  
 Clone: HNK-1 or Leu-7  
 Isotype: IgM, kappa  
 Species Reactivity: Human. Does not react with Rat. Others not known.  
 Positive Control: CCRF-CEM Cells. Lymph node or tonsil.  
 Specificity: Anti-CD57 marks a subset of lymphocytes known as natural killer (NK) cells. Anti-CD57 also stains neuroendocrine cells and their derived tumors, including carcinoid tumors and medulloblastoma.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0355-C.1	0.1 ml
RA0355-C.5	0.5 ml

**CD57 / B3GAT1 (Natural Killer Cell Marker); Clone NK/804 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human B3GAT1 protein  
 Clone: NK/804  
 Isotype: IgM, kappa  
 Species Reactivity: Human. Does not react with Rat. Others not known.  
 Positive Control: Lymph node or tonsil.  
 Specificity: Anti-CD57 marks a subset of lymphocytes known as natural killer (NK) cells. Anti-CD57 also stains neuroendocrine cells and their derived tumors, including carcinoid tumors and medulloblastoma.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0358-C.1	0.1 ml
RA0358-C.5	0.5 ml

**CD57 / B3GAT1 (Natural Killer Cell Marker); Clone NK-1 (Concentrate)**

Species: Mouse  
 Immunogen: Human peripheral blood mononuclear cells  
 Clone: NK-1  
 Isotype: IgM, kappa  
 Species Reactivity: Human. Does not react with Rat. Others not known.  
 Positive Control: Lymph node or tonsil.  
 Specificity: Anti-CD57 marks a subset of lymphocytes known as natural killer (NK) cells. Anti-CD57 also stains neuroendocrine cells and their derived tumors, including carcinoid tumors and medulloblastoma.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0356-C.1	0.1 ml
RA0356-C.5	0.5 ml

**CD6; Clone 3F7B5 (Concentrate)**

Species: Mouse  
 Immunogen: Human rheumatoid synovial T-cell line ST-1  
 Clone: 3F7B5  
 Isotype: IgG1  
 Species Reactivity: Human. Others not known.  
 Positive Control: CCRF-CEM, Jurkat cells, Tonsil.  
 Specificity: Cell membrane positivity as expressed by thymocytes, mature/activated T-cells, a subset of B-cells known as B-1 cells, and by some cells in the brain.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0038-C.1	0.1 ml
RA0038-C.5	0.5 ml

**CD6; Clone C6/372 & 3F7B5 (Concentrate)**

Species: Mouse  
 Immunogen: Human recombinant CD6 protein (C6/372); Human rheumatoid synovial T-cell line ST-1 (3F7B5)  
 Clone: C6/372 & 3F7B5  
 Isotype: IgG1 (C6/372); IgG1 (3F7B5)  
 Species Reactivity: Human. Others not known.  
 Positive Control: CCRF-CEM, Jurkat cells, tonsil.  
 Specificity: Cell membrane positivity as expressed by thymocytes, mature/activated T-cells, a subset of B-cells known as B-1 cells, and by some cells in the brain.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0040-C.1	0.1 ml
RA0040-C.5	0.5 ml

**CD6; Clone C6/372 (Concentrate)**

Species: Mouse  
 Immunogen: Human recombinant CD6 protein  
 Clone: C6/372  
 Isotype: IgG1  
 Species Reactivity: Human. Others not known.  
 Positive Control: CCRF-CEM, Jurkat cells, Tonsil.  
 Specificity: Cell membrane positivity as expressed by thymocytes, mature/activated T-cells, a subset of B-cells known as B-1 cells, and by some cells in the brain.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0039-C.1	0.1 ml
RA0039-C.5	0.5 ml

**CD63 (Late Endosomes Marker); Clone LAMP3/803 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human CD63 protein

Clone: LAMP3/803

Isotype: IgG1, kappa

Species Reactivity: Human and Mouse. Others not known.

Positive Control: SK-MEL-28, HL60, THP-1 or NIH/3T3 cells. Melanoma or lymphoma.

Specificity: CD63 is expressed on activated platelets, monocytes and macrophages, and is weakly expressed on granulocytes, T-cells and B-cells. It is located on the basophilic granule membranes and on the plasma membranes of lymphocytes and granulocytes.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0059-C.1	0.1 ml
RA0059-C.5	0.5 ml

**CD63 (Late Endosomes Marker); Clone MX-49.129.5 (Concentrate)**

Species: Mouse

Immunogen: Full length CD63 of human origin

Clone: MX-49.129.5

Isotype: IgG1, kappa

Species Reactivity: Human and Mouse. Others not known.

Positive Control: SK-MEL-28, HL60, THP-1 or NIH/3T3 cells. Melanoma or lymphoma.

Specificity: CD63 is expressed on activated platelets, monocytes and macrophages, and is weakly expressed on granulocytes, T-cells and B-cells. It is located on the basophilic granule membranes and on the plasma membranes of lymphocytes and granulocytes.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0058-C.1	0.1 ml
RA0058-C.5	0.5 ml

**CD63 (Late Endosomes Marker); Clone NK1/C3 (Concentrate)**

Species: Mouse

Immunogen: Smooth plasma membrane fraction of MeWo cells

Clone: NK1/C3

Isotype: IgG1, kappa

Species Reactivity: Human and Mouse. Others not known.

Positive Control: SK-MEL-28, HL60, THP-1 or NIH/3T3 cells. Melanoma or lymphoma.

Specificity: CD63 is expressed on activated platelets, monocytes and macrophages, and is weakly expressed on granulocytes, T-cells and B-cells. It is located on the basophilic granule membranes and on the plasma membranes of lymphocytes and granulocytes.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0057-C.1	0.1 ml
RA0057-C.5	0.5 ml

**CD68 (Macrophage Marker); Clone C68/684 (Concentrate)**

Species: Mouse

Immunogen: Subcellular fraction of human alveolar macrophages

Clone: C68/684

Isotype: IgG1, kappa

Species Reactivity: Human, Monkey, Mouse, Rat, and Cat.

Others not known.

Positive Control: Tonsil, Lymph Node or Spleen.

Specificity: This antibody recognizes a glycoprotein of 110kDa, which is identified as CD68.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0061-C.1	0.1 ml
RA0061-C.5	0.5 ml

**CD68 (Macrophage Marker); Clone CD68/G2 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human CD68 protein

Clone: CD68/G2

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: Tonsil, Lymph Node or Spleen

Specificity: This antibody recognizes a glycoprotein of 110kDa, which is identified as CD68.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0064-C.1	0.1 ml
RA0064-C.5	0.5 ml

**CD68 (Macrophage Marker); Clone KP1 & C68/684 (Concentrate)**

Species: Mouse

Immunogen: Subcellular fraction of human alveolar macrophages (KP1); Subcellular fraction of human alveolar macrophages (C68/684)

Clone: KP1 &amp; C68/684

Isotype: IgG1, kappa (KP1); IgG1, kappa (C68/684)

Species Reactivity: Human, Monkey, Mouse, Rat and Cat.

Others not known.

Positive Control: Tonsil, Lymph Node or Spleen.

Specificity: This antibody recognizes a glycoprotein of 110kDa, which is identified as CD68.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0062-C.1	0.1 ml
RA0062-C.5	0.5 ml

**CD68 (Macrophage Marker); Clone KP1 (Concentrate)**

Species: Mouse  
 Immunogen: Subcellular fraction of human alveolar macrophages  
 Clone: KP1  
 Isotype: IgG1, kappa  
 Positive Control: Tonsil, Lymph Node or Spleen  
 Cellular Localization: Cytoplasmic  
 Specificity: This antibody recognizes a glycoprotein of 110kDa, which is identified as CD68.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0060-C.1	0.1 ml
RA0060-C.5	0.5 ml

**CD68 (Macrophage Marker); Clone LAMP4/824 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human LAMP4 protein  
 Clone: LAMP4/824  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Tonsil, Lymph Node or Spleen.  
 Specificity: This antibody recognizes a glycoprotein of 110kDa, which is identified as CD68.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0063-C.1	0.1 ml
RA0063-C.5	0.5 ml

**CD74 (B-Cell Marker); Clone CLIP/813 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human CD74 protein  
 Clone: CLIP/813  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Daudi or Raji Cells. Tonsil or Lymph Node.  
 Specificity: This monoclonal antibody recognizes a protein of ~35kDa, identified as CD74.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0066-C.1	0.1 ml
RA0066-C.5	0.5 ml

**CD74 (B-Cell Marker); Clone LN-2 (Concentrate)**

Species: Mouse  
 Immunogen: SU-DHL-4 lymphoma cells  
 Clone: LN-2  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Baboon and Mouse. Does not react with Rat. Others not known.  
 Positive Control: Daudi or Raji Cells. Tonsil or Lymph Node.  
 Specificity: This monoclonal antibody recognizes a protein of ~35kDa, identified as CD74 (Workshop IV).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0065-C.1	0.1 ml
RA0065-C.5	0.5 ml

**CD79a (B-Cell Marker); Clone HM47/A9 (Concentrate)**

Species: Mouse  
 Immunogen: A synthetic peptide corresponding to aa 202-216 (GTYQDVGSLNIADVQ) of human CD79a protein.  
 Clone: HM47/A9  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Monkey, Pig, Cow, Mouse and Rat. Others not known.  
 Positive Control: Daudi or Ramos cells. Germinal center B-cells in a lymph node or tonsil.  
 Specificity: Anti-CD79a is generally used to complement anti-CD20 especially for mature B-cell lymphomas after treatment with Rituximab (anti-CD20). This antibody will stain many of the same lymphomas as anti-CD20, but also is more likely to stain B-lymphoblastic lymphoma/leukemia than is anti-CD20. Anti-CD79a also stains more cases of plasma cell myeloma and occasionally some types of endothelial cells as well.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0069-C.1	0.1 ml
RA0069-C.5	0.5 ml

**CD79a (B-Cell Marker); Clone IGA/515 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human IGA protein  
 Clone: IGA/515  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Daudi or Ramos cells. Germinal center B-cells in a lymph node or tonsil.  
 Specificity: Anti-CD79a is generally used to complement anti-CD20 especially for mature B-cell lymphomas after treatment with Rituximab (anti-CD20). This antibody will stain many of the same lymphomas as anti-CD20, but also is more likely to stain B-lymphoblastic lymphoma/leukemia than is anti-CD20. Anti-CD79a also stains more cases of plasma cell myeloma and occasionally some types of endothelial cells as well.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0073-C.1	0.1 ml
RA0073-C.5	0.5 ml

**CD79a (B-Cell Marker); Clone IGA/764 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human IGA protein  
 Clone: IGA/764  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Daudi or Ramos cells. Germinal center B-cells in a lymph node or tonsil.  
 Specificity: Anti-CD79a is generally used to complement anti-CD20 especially for mature B-cell lymphomas after treatment with Rituximab (anti-CD20). This antibody will stain many of the same lymphomas as anti-CD20, but also is more likely to stain B-lymphoblastic lymphoma/leukemia than is anti-CD20. Anti-CD79a also stains more cases of plasma cell myeloma and occasionally some types of endothelial cells as well.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0072-C.1	0.1 ml
RA0072-C.5	0.5 ml

**CD79a (B-Cell Marker); Clone JCB117 & HM47/A9 (Concentrate)**

Species: Mouse  
 Immunogen: A synthetic peptide corresponding to aa 202-216 (GTQDVGSLNIADVQ) of human CD79a protein (JCB117 and HM47/A9).  
 Clone: JCB117 & HM47/A9  
 Isotype: IgG1, kappa (JCB117); IgG1, kappa (HM47/A9)  
 Species Reactivity: Human, Monkey, Pig, Cow, Mouse and Rat. Others not known.  
 Positive Control: Daudi or Ramos cells. Germinal center B-cells in a lymph node or tonsil.  
 Specificity: Anti-CD79a is generally used to complement anti-CD20 especially for mature B-cell lymphomas after treatment with Rituximab (anti-CD20). This antibody will stain many of the same lymphomas as anti-CD20, but also is more likely to stain B-lymphoblastic lymphoma/leukemia than is anti-CD20. Anti-CD79a also stains more cases of plasma cell myeloma and occasionally some types of endothelial cells as well.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0071-C.1	0.1 ml
RA0071-C.5	0.5 ml

**CD79a (B-Cell Marker); Clone JCB117 (Concentrate)**

Species: Mouse  
 Immunogen: A synthetic peptide corresponding to aa 202-216 (GTQDVGSLNIADVQ) of human CD79a protein.  
 Clone: JCB117  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Daudi or Ramos cells. Germinal center B-cells in a lymph node or tonsil.  
 Specificity: Anti-CD79a is generally used to complement anti-CD20 especially for mature B-cell lymphomas after treatment with Rituximab (anti-CD20). This antibody will stain many of the same lymphomas as anti-CD20, but also is more likely to stain B-lymphoblastic lymphoma/leukemia than is anti-CD20. Anti-CD79a also stains more cases of plasma cell myeloma and occasionally some types of endothelial cells as well.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0067-C.1	0.1 ml
RA0067-C.5	0.5 ml

**CD8A (Cytotoxic & Suppressor T-Cell Marker); Clone C8/144B (Concentrate)**

Species: Mouse  
 Immunogen: A 13 amino acid peptide from C-terminal cytoplasmic domain of alpha chain of human CD8 molecule.  
 Clone: C8/144B  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: HuT78 or hPBL. Tonsil.  
 Specificity: CD8 is a 68 kDa transmembrane glycoprotein expressed as a heterodimer by a majority of thymocytes, and by major histocompatibility complex (MHC) class I restricted, mature, suppressor/cytotoxic T-cells.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0042-C.1	0.1 ml
RA0042-C.5	0.5 ml

**CD8A (Cytotoxic & Suppressor T-Cell Marker); Clone C8/468 & C8/144B (Concentrate)**

Species: Mouse  
 Immunogen: Human CD8 recombinant protein (C8/468); A 13 amino acid synthetic peptide from the C-terminal cytoplasmic domain of alpha chain of human CD8 molecule (C8/144B)  
 Clone: C8/468 & C8/144B  
 Isotype: IgG1, kappa (C8/468); IgG1, kappa (C8/144B)  
 Species Reactivity: Human. Others not known.  
 Positive Control: HuT78 or hPBL. Tonsil.  
 Specificity: CD8 is a 68 kDa transmembrane glycoprotein expressed as a heterodimer by a majority of thymocytes, and by major histocompatibility complex (MHC) class I restricted, mature, suppressor/cytotoxic T-cells.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0043-C.1	0.1 ml
RA0043-C.5	0.5 ml

**CD8A (Cytotoxic & Suppressor T-Cell Marker); Clone C8/468 (Concentrate)**

Species: Mouse  
 Immunogen: Human CD8 recombinant protein  
 Clone: C8/468  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: HuT78 or hPBL Tonsil.  
 Specificity: CD8 is a 68kDa transmembrane glycoprotein expressed as a heterodimer by a majority of thymocytes, and by major histocompatibility complex (MHC) class I restricted, mature, suppressor/cytotoxic T-cells.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0041-C.1	0.1 ml
RA0041-C.5	0.5 ml

**CD99 / MIC2 (Ewing's Sarcoma Marker); Clone 12E7 & MIC2/877 (Concentrate)**

Species: Mouse  
 Immunogen: Human acute lymphocytic leukemia T-cells (12E7); Recombinant human MIC2 protein (MIC2/877)  
 Clone: 12E7 & MIC2/877  
 Isotype: IgG1, kappa (12E7); IgG1, kappa (MIC2/877)  
 Species Reactivity: Human. Others not tested.  
 Positive Control: MOLT-4 cells. Pancreas or Ewing's sarcoma.  
 Specificity: Recognizes a sialoglycoprotein of 27-32kDa, identified as CD99, MIC2 gene product, or E2 antigen.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0206-C.1	0.1 ml
RA0206-C.5	0.5 ml

**CD99 / MIC2 (Ewing's Sarcoma Marker); Clone 12E7 (Concentrate)**

Species: Mouse  
 Immunogen: Human acute lymphocytic leukemia T-cells  
 Clone: 12E7  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not tested.  
 Positive Control: MOLT-4 cells. Pancreas or Ewing's sarcoma.  
 Specificity: Recognizes a sialoglycoprotein of 27-32kDa, identified as CD99, MIC2 gene product, or E2 antigen. This antibody shows a very similar reactivity to other CD99 antibodies (e.g. O13, 12E7, or HBA-71) and is excellent for immunohistochemical staining of formalin-fixed, paraffin-embedded tissues.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0204-C.1	0.1 ml
RA0204-C.5	0.5 ml

**CD99 / MIC2 (Ewing's Sarcoma Marker); Clone HO36-1.1 (Concentrate)**

Species: Mouse  
 Immunogen: Purified E-rosette forming cells from human peripheral blood lymphocytes  
 Clone: HO36-1.1  
 Isotype: IgM, kappa  
 Species Reactivity: Human and Rat. Others not tested.  
 Positive Control: Pancreas or Ewing's sarcoma.  
 Specificity: Recognizes a sialoglycoprotein of 27-32kDa, identified as CD99, MIC2 gene product, or E2 antigen. This antibody shows a very similar reactivity to other CD99 antibodies (e.g. O13, 12E7, or HBA-71) and is excellent for immunohistochemical staining of formalin-fixed, paraffin-embedded tissues.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0203-C.1	0.1 ml
RA0203-C.5	0.5 ml

**CD99 / MIC2 (Ewing's Sarcoma Marker); Clone MIC2/877 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human MIC2 protein  
 Clone: MIC2/877  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not tested.  
 Positive Control: MOLT-4 cells. Pancreas or Ewing's sarcoma.  
 Specificity: Recognizes a sialoglycoprotein of 27-32kDa, identified as CD99, MIC2 gene product, or E2 antigen.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0205-C.1	0.1 ml
RA0205-C.5	0.5 ml

**CDw75 (B-Cell Marker); Clone LN-1 (Concentrate)**

Species: Mouse  
 Immunogen: Nuclei from pokeweed mitogen-stimulated peripheral blood lymphocytes.  
 Clone: LN-1  
 Isotype: IgM, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: HeLa or Daudi Cells. Germinal center B-cells in a lymph node or tonsil. Use LN1's ability to stain surface of erythrocytes as an internal positive control.  
 Specificity: Recognizes a neuraminidase-sensitive sialoprotein (CDw75), present on cell membrane and cytoplasm of germinal center B-cells and derived lymphomas. This antibody reacts with RBC precursors of bone marrow, ductal, and ciliated epithelial cells of kidney, breast, prostate, pancreas, lung, and with glioblastomas, astrocytomas, and Reed Sternberg cells in lymphocyte predominant Hodgkin's disease.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0291-C.1	0.1 ml
RA0291-C.5	0.5 ml
RA0291-C1	1 ml



**CDX2 (GI Epithelial Marker); Clone CDX2/1690 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human CDX2 protein fragment (aa150-249) (exact sequence is proprietary)  
 Clone: CDX2/1690  
 Isotype: IgG2a, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: HT29 cells or Colon Carcinoma.  
 Specificity: Anti-CDX2 has been useful to establish GI origin of metastatic adenocarcinomas and carcinoids and is especially useful to distinguish metastatic colorectal adenocarcinoma from lung adenocarcinoma. However, mucinous carcinomas of the ovary also express CDX2 protein. It limits the usefulness of this marker in the distinction of metastatic colorectal adenocarcinoma from mucinous carcinoma of the ovary.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0480-C.1	0.1 ml
RA0480-C.5	0.5 ml
RA0480-C1	1 ml

**CFTR (Cystic Fibrosis Transmembrane Conductance Regulator); Clone CFTR/1341 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human full-length CFTR.  
 Clone: CFTR/1341  
 Isotype: IgG1  
 Species Reactivity: Human. Others not known.  
 Positive Control: MOLT-4 cells. Pancreas, Kidney or Placenta.  
 Specificity: Recognizes a protein of 165-170kDa, identified as cystic fibrosis transmembrane conductance regulator (CFTR).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0497-C.1	0.1 ml
RA0497-C.5	0.5 ml
RA0497-C1	1 ml

**CFTR (Cystic Fibrosis Transmembrane Conductance Regulator); Clone CFTR/1342 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human full-length CFTR  
 Clone: CFTR/1342  
 Isotype: IgG1  
 Species Reactivity: Reacts with human. Others not known.  
 Positive Control: MOLT-4 cells. Pancreas, Kidney or Placenta.  
 Specificity: Recognizes a protein of 165-170kDa, identified as cystic fibrosis transmembrane conductance regulator (CFTR).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0498-C.1	0.1 ml
RA0498-C.5	0.5 ml
RA0498-C1	1 ml

**CFTR (Cystic Fibrosis Transmembrane Conductance Regulator); Clone CFTR/1643 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human CFTR fragment (aa258-385) (exact sequence is proprietary).  
 Clone: CFTR/1643  
 Isotype: IgG2b  
 Species Reactivity: Reacts with human. Others not known.  
 Positive Control: MOLT-4 cells. Pancreas, Kidney or Placenta.  
 Specificity: Recognizes a protein of 165-170kDa, identified as cystic fibrosis transmembrane conductance regulator (CFTR).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0500-C.1	0.1 ml
RA0500-C.5	0.5 ml
RA0500-C1	1 ml

**CFTR (Cystic Fibrosis Transmembrane Conductance Regulator); Clone CFTR/1775R (Concentrate)**

Species: Rabbit  
 Immunogen: Recombinant human CFTR fragment (aa258-385) (exact sequence is proprietary).  
 Clone: CFTR/1775R  
 Isotype: IgG, kappa  
 Species Reactivity: Reacts with human. Others not known.  
 Positive Control: MOLT-4 cells. Pancreas, Kidney or Placenta.  
 Specificity: Recognizes a protein of 165-170kDa, identified as cystic fibrosis transmembrane conductance regulator (CFTR).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0503-C.1	0.1 ml
RA0503-C.5	0.5 ml
RA0503-C1	1 ml

**CFTR (Cystic Fibrosis Transmembrane Conductance Regulator); Clone CFTR/1785 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human CFTR fragment (aa258-385) (exact sequence is proprietary).  
 Clone: CFTR/1785  
 Isotype: IgG2b  
 Species Reactivity: Reacts with human. Others not known.  
 Positive Control: MOLT-4 cells. Pancreas, Kidney or Placenta.  
 Specificity: Recognizes a protein of 165-170kDa, identified as cystic fibrosis transmembrane conductance regulator (CFTR).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0502-C.1	0.1 ml
RA0502-C.5	0.5 ml
RA0502-C1	1 ml



**CFTR (Cystic Fibrosis Transmembrane Conductance Regulator); Clone SPM176 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human full-length CFTR.

Clone: SPM176

Isotype: IgG2a

Species Reactivity: Reacts with human and mouse. Others not known.

Positive Control: MOLT-4 cells. Pancreas, Kidney or Placenta.

Specificity: Recognizes a protein of 165-170kDa, identified as cystic fibrosis transmembrane conductance regulator (CFTR).

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0499-C.1	0.1 ml
RA0499-C.5	0.5 ml
RA0499-C1	1 ml

**Chromogranin A / CHGA (Neuroendocrine Marker); Clone CGA/413 (Concentrate)**

Species: Mouse.

Immunogen: Recombinant human chromogranin A protein.

Clone: CGA/413

Isotype: IgG2b, kappa.

Species Reactivity: Reacts with Human. Does not react with rat. Others not known.

Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.

Specificity: Recognizes the Chromogranin A protein.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0514-C.1	0.1 ml
RA0514-C.5	0.5 ml
RA0514-C1	1 ml

**Chromogranin A / CHGA (Neuroendocrine Marker); Clone CGA/414 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human chromogranin A protein

Clone: CGA/414

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.

Specificity: Chromogranin A is present in neuroendocrine cells throughout the body, including the neuroendocrine cells of the large and small intestine, adrenal medulla and pancreatic islets. It is an excellent marker for carcinoid tumors, pheochromocytomas, paragangliomas, and other neuroendocrine tumors.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0090-C.1	0.1 ml
RA0090-C.5	0.5 ml

**Chromogranin A / CHGA (Neuroendocrine Marker); Clone CHGA/1731R (Concentrate)**

Species: Rabbit.

Immunogen: Recombinant human full-length Chromogranin A protein.

Clone: CHGA/1731R

Isotype: IgG, kappa.

Species Reactivity: Reacts with human. Does not react with rat. Others not known.

Positive Control: PC12 cells. Adrenal gland, bowel, parathyroid, pancreas, or pheochromocytoma.

Specificity: Recognizes the Chromogranin A protein.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0515-C.1	0.1 ml
RA0515-C.5	0.5 ml
RA0515-C1	1 ml

**Chromogranin A / CHGA (Neuroendocrine Marker); Clone CHGA/1773R (Concentrate)**

Species: Rabbit.

Immunogen: Recombinant human full-length Chromogranin A protein.

Clone: CHGA/1773R

Isotype: Rabbit / IgG, kappa.

Species Reactivity: Reacts with human. Does not react with rat. Others not known.

Positive Control: PC12 cells. Adrenal gland, bowel, parathyroid, pancreas, or pheochromocytoma.

Specificity: Recognizes the Chromogranin A protein.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0516-C.1	0.1 ml
RA0516-C.5	0.5 ml
RA0516-C1	1 ml

**Chromogranin A / CHGA (Neuroendocrine Marker); Clone CHGA/1815R (Concentrate)**

Species: Rabbit.

Immunogen: Recombinant full-length human CHGA protein.

Clone: CHGA/1815R

Isotype: IgG, kappa.

Species Reactivity: Reacts with human. Does not react with rat. Others not known.

Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.

Specificity: Recognizes the Chromogranin A protein.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0517-C.1	0.1 ml
RA0517-C.5	0.5 ml
RA0517-C1	1 ml

**Chromogranin A / CHGA (Neuroendocrine Marker); Clone CHGA/765 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human CHGA protein  
 Clone: CHGA/765  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.  
 Specificity: Chromogranin A is present in neuroendocrine cells throughout the body, including the neuroendocrine cells of the large and small intestine, adrenal medulla and pancreatic islets. It is an excellent marker for carcinoid tumors, pheochromocytomas, paragangliomas, and other neuroendocrine tumors.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0096-C.1	0.1 ml
RA0096-C.5	0.5 ml

**Chromogranin A / CHGA (Neuroendocrine Marker); Clone CHGA/777 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human CHGA protein  
 Clone: CHGA/777  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.  
 Specificity: Chromogranin A is present in neuroendocrine cells throughout the body, including the neuroendocrine cells of the large and small intestine, adrenal medulla and pancreatic islets. It is an excellent marker for carcinoid tumors, pheochromocytomas, paragangliomas, and other neuroendocrine tumors.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0097-C.1	0.1 ml
RA0097-C.5	0.5 ml

**Chromogranin A / CHGA (Neuroendocrine Marker); Clone CHGA/798 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human CHGA protein  
 Clone: CHGA/798  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.  
 Specificity: Chromogranin A is present in neuroendocrine cells throughout the body, including the neuroendocrine cells of the large and small intestine, adrenal medulla and pancreatic islets. It is an excellent marker for carcinoid tumors, pheochromocytomas, paragangliomas, and other neuroendocrine tumors.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0098-C.1	0.1 ml
RA0098-C.5	0.5 ml

**Chromogranin A / CHGA (Neuroendocrine Marker); Clone LK2H10 & PHE5 (Concentrate)**

Species: Mouse  
 Immunogen: Human pheochromocytoma (LK2H10 & PHE5)  
 Clone: LK2H10 & PHE5  
 Isotype: IgG1, kappa (LK2H10 & PHE5)  
 Species Reactivity: Human, Monkey, Pig, Mouse and Rat.  
 Others not known.  
 Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.  
 Specificity: Chromogranin A is present in neuroendocrine cells throughout the body, including the neuroendocrine cells of the large and small intestine, adrenal medulla and pancreatic islets. It is an excellent marker for carcinoid tumors, pheochromocytomas, paragangliomas, and other neuroendocrine tumors.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0094-C.1	0.1 ml
RA0094-C.5	0.5 ml

**Chromogranin A / CHGA (Neuroendocrine Marker); Clone LK2H10 (Concentrate)**

Species: Mouse  
 Immunogen: Human pheochromocytoma  
 Clone: LK2H10  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Monkey, Pig, Mouse and Rat. Does not react with Guinea Pig, Sheep & Rabbit. Others not known.  
 Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.  
 Specificity: Chromogranin A is present in neuroendocrine cells throughout the body, including the neuroendocrine cells of the large and small intestine, adrenal medulla and pancreatic islets. It is an excellent marker for carcinoid tumors, pheochromocytomas, paragangliomas, and other neuroendocrine tumors.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0091-C.1	0.1 ml
RA0091-C.5	0.5 ml

### **Chromogranin A / CHGA (Neuroendocrine Marker); Clone LK2H10, PHE5 & CGA/414 (Concentrate)**

Species: Mouse  
 Immunogen: Human pheochromocytoma (LK2H10 & PHE5) & recombinant human chromogranin A protein (CGA414).  
 Clone: LK2H10, PHE5 & CGA/414  
 Isotype: IgG1, kappa (LK2H10, PHE5 & CGA/414)  
 Species Reactivity: Human, Monkey, Pig, Mouse and Rat.  
 Others not known.  
 Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.  
 Specificity: Chromogranin A is present in neuroendocrine cells throughout the body, including the neuroendocrine cells of the large and small intestine, adrenal medulla and pancreatic islets. It is an excellent marker for carcinoid tumors, pheochromocytomas, paragangliomas, and other neuroendocrine tumors.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0095-C.1	0.1 ml
RA0095-C.5	0.5 ml

### **Chromogranin A / CHGA (Neuroendocrine Marker); Clone PHE5 (Concentrate)**

Species: Mouse  
 Immunogen: Human pheochromocytoma  
 Clone: PHE5  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Monkey. Does not react with Mouse and Rat. Others not known.  
 Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.  
 Specificity: Chromogranin A is present in neuroendocrine cells throughout the body, including the neuroendocrine cells of the large and small intestine, adrenal medulla and pancreatic islets. It is an excellent marker for carcinoid tumors, pheochromocytomas, paragangliomas, and other neuroendocrine tumors.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0093-C.1	0.1 ml
RA0093-C.5	0.5 ml

### **Chromogranin A / CHGA (Neuroendocrine Marker); Clone SPM339 (Concentrate)**

Species: Mouse  
 Immunogen: Human pheochromocytoma  
 Clone: SPM339  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Monkey, Pig, Mouse and Rat. Does not react with guinea pig, sheep & rabbit. Others not known.  
 Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.  
 Specificity: Recognizes the Chromogranin A protein.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0512-C.1	0.1 ml
RA0512-C.5	0.5 ml
RA0512-C1	1 ml

### **Chromogranin A / CHGA (Neuroendocrine Marker); Clone SPM553 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human Chromogranin A protein  
 Clone: SPM553  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.  
 Specificity: Recognizes the Chromogranin A protein.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0511-C.1	0.1 ml
RA0511-C.5	0.5 ml
RA0511-C1	1 ml

### **Chromogranin A / CHGA (Neuroendocrine Marker); Clone SPM585 (Concentrate)**

Species: Mouse.  
 Immunogen: Human pheochromocytoma.  
 Clone: SPM585  
 Isotype: IgG1, kappa.  
 Species Reactivity: Human & monkey. Does not react with mouse & rat. Others not known.  
 Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.  
 Specificity: Recognizes the Chromogranin A protein.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0513-C.1	0.1 ml
RA0513-C.5	0.5 ml
RA0513-C1	1 ml

### **Chromogranin A / CHGA (Neuroendocrine Marker); Clones CGA/413 & CHGA/777 & CHGA/798 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human chromogranin A protein.  
 Clone: CGA/413 & CHGA/777 & CHGA/798  
 Isotype: IgG's  
 Species Reactivity: Human, monkey, pig, mouse, and rat. Others not known.  
 Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.  
 Specificity: Recognizes the Chromogranin A protein.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0510-C.1	0.1 ml
RA0510-C.5	0.5 ml
RA0510-C1	1 ml

**Clathrin, Light Chain; Clone CLC/1421 (Concentrate)**

Species: Mouse.

Immunogen: Purified recombinant N-terminal fragment of human Clathrin Light Chain.

Clone: CLC/1421

Isotype: IgG2b, kappa.

Species Reactivity: Reacts with human. Others not known.

Positive Control: HeLa cells. Placenta or prostate carcinoma.

Specificity: Recognizes proteins of 31-44kDa, which are identified as Clathrin Light Chains (both A & B).

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0524-C.1	0.1 ml
RA0524-C.5	0.5 ml
RA0524-C1	1 ml

**c-Myc Oncoprotein; Clone 9E10.3 (Concentrate)**

Species: Mouse

Immunogen: A synthetic peptide, corresponding to aa 408-439 (AEEQKLISEEDLLRKRREQLKHKLEQLRNSCA) from the C-terminus of human c-Myc, coupled to KLH.

Clone: 9E10.3

Isotype: IgG1, kappa

Species Reactivity: Human. Does not react with Mouse, Rat, or Chicken. Others not tested.

Positive Control: HL-60 cells or breast carcinoma.

Specificity: This antibody recognizes a transcription factor of 64-67kDa, identified as c-Myc. Its epitope spans between aa 410-419 (EQKLISEEDL) which is a specific portion of an alpha helical region of the human c-Myc protein. This antibody shows no cross-reaction with v-Myc.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0226-C.1	0.1 ml
RA0226-C.5	0.5 ml

**c-Myc Oncoprotein; Clone MYC909 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human c-Myc protein

Clone: MYC909

Isotype: IgG1, kappa

Species Reactivity: Human. Others not tested.

Positive Control: HL-60 cells or breast carcinoma.

Specificity: This antibody recognizes a transcription factor of 64-67kDa, identified as c-Myc. Its epitope spans between aa 410-419 (EQKLISEEDL) which is a specific portion of an alpha helical region of the human c-Myc protein. This antibody shows no cross-reaction with v-Myc.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0227-C.1	0.1 ml
RA0227-C.5	0.5 ml

**Complement 4d (C4d) (Acute Humoral Rejection Marker); Clone C4D204 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human Complement 4d protein

Clone: C4D204

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: Rejected Renal Transplant Tissue

Specificity: This Mab is specific to Complement 4d (C4d) and it reacts with the secreted as well as cell-bound C4d.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0025-C.1	0.1 ml
RA0025-C.5	0.5 ml

**CPS1 / Carbamoyl-Phosphate Synthetase (Hepatic Mitochondrial Marker); Clone CPS1/1022 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human CPS1 protein

Clone: CPS1/1022

Isotype: IgG1

Species Reactivity: Human and Dog. Others not known.

Positive Control: HeLa cells. Liver or Hepatocellular Carcinoma (HCC).

Specificity: This antibody recognizes a protein of 165kDa, identified as carbamoyl phosphate synthetase 1 (CPS1).

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0434-C.1	0.1 ml
RA0434-C.5	0.5 ml
RA0434-C1	1 ml

**CPS1 / Carbamoyl-Phosphate Synthetase (Hepatocellular Marker); Clone SPM615 (Concentrate)**

Species: Mouse.

Immunogen: Recombinant human CPS1 protein.

Clone: SPM615

Isotype: IgG1

Species Reactivity: Reacts with human and dog. Others not known.

Positive Control: HeLa cells, liver, or hepatocellular carcinoma (HCC).

Specificity: This monoclonal antibody recognizes a protein of 165kDa, identified as carbamoyl phosphate synthetase 1 (CPS1).

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0535-C.1	0.1 ml
RA0535-C.5	0.5 ml
RA0535-C1	1 ml

**Creatine Kinase-BB (CK-BB); Clone 2ba6 (Concentrate)**

Species: Mouse.

Immunogen: Human CKBB protein.

Clone: 2ba6

Isotype: IgG1, kappa.

Species Reactivity: Reacts with human. Predicted to react with chimpanzee, rhesus monkey, dog, cow, mouse, rat, chicken, zebrafish, and frog. Others not tested.

Positive Control: Cerebellum.

Specificity: This monoclonal antibody recognizes the CKBB isoenzyme and does not react with the B subunit in CKMB. It shows minimal reactivity with other human serum proteins.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0519-C.1	0.1 ml
RA0519-C.5	0.5 ml
RA0519-C1	1 ml

**Cyclin B1 (G2- & M-phase Cyclin); Clone CCNB1/1098 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human CCNB1 protein

Clone: CCNB1/1098

Isotype: IgG1, kappa

Species Reactivity: Human and Mouse. Others not known.

Positive Control: Any human cell line in logarithmic growth phase, tonsil, or testis.

Specificity: This antibody recognizes a protein of 55-62kDa, identified as cyclin B1.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0429-C.5	0.5 ml

**Cyclin D1 (G1-Cyclin & Mantle Cell Marker); Clone CCND1/809 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human CCND1 protein

Clone: CCND1/809

Isotype: IgG2a, kappa

Species Reactivity: Human. Others not known.

Positive Control: T47D, ZR75, BT474, SKBR3, MCF-7, MDA-MB-453, HT29, Ramos, Jurkat or A431 cells. ~60% of mantle cell lymphomas and ~40% of breast carcinomas are positive.

Specificity: This antibody recognizes a protein of 36kDa, identified as cyclin D1.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0426-C.1	0.1 ml
RA0426-C.5	0.5 ml
RA0426-C1	1 ml

**Cyclin D1 (G1-Cyclin & Mantle Cell Marker); Clone DCS-6 (Concentrate)**

Species: Mouse

Immunogen: Human recombinant full length Cyclin D1 protein

Clone: DCS-6

Isotype: IgG2a, kappa

Species Reactivity: Human, Monkey, Mouse and Rat. Others not known.

Positive Control: T47D, ZR75, BT474, SKBR3, MCF-7, MDA-MB-453, HT29, Ramos, Jurkat or A431 cells. Mantle cell lymphoma or breast carcinoma. ~60% of mantle cell lymphomas and ~40% of breast carcinomas are positive.

Specificity: Recognizes a protein of 36kDa, identified as Cyclin D1.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0014-C.1	0.1 ml
RA0014-C.5	0.5 ml

**Cytochrome c (Mitochondrial Marker); Clone 7H8.2C12 (Concentrate)**

Species: Mouse

Immunogen: Synthetic peptides corresponding to amino acids 1-80, 81-104 and 66-104 of pigeon cytochrome c.

Clone: 7H8.2C12

Isotype: IgG2b, kappa

Species Reactivity: Human, Mouse, Rat, Horse, Dog, Pigeon, Frog, and Drosophila. Others not known.

Positive Control: K-562, HL-60, Jurkat, NIH3T3, or PC-3 cells. Cardiac muscle.

Specificity: This antibody recognizes an epitope within amino acids 93-104 of pigeon cytochrome c.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0359-C.1	0.1 ml
RA0359-C.5	0.5 ml

**Cytochrome c (Mitochondrial Marker); Clone CTC05 (Concentrate)**

Species: Mouse

Immunogen: Recombinant cytochrome c protein

Clone: CTC05

Isotype: IgG2b, kappa

Species Reactivity: Human, Mouse, Rat, Horse, Dog, Pigeon, Frog, and Drosophila. Others not known.

Positive Control: K-562, HL-60, Jurkat, NIH3T3, or PC-3 cells. Cardiac muscle.

Specificity: Recognizes cytochrome c in a wide range of species, from Drosophila to human.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0360-C.1	0.1 ml
RA0360-C.5	0.5 ml

**Cytokeratin 10 (Suprabasal Epithelial Marker);  
Clone AE20 (Concentrate)**

Species: Mouse  
 Immunogen: Human cytokeratin 10  
 Clone: AE20  
 Isotype: IgG1, kappa  
 Species Reactivity: Human and Mouse. Others not known.  
 Positive Control: A431, HeLa, MCF7 cells or Esophagus.  
 Specificity: This antibody recognizes a protein of 56.5kDa, identified as cytokeratin 10 (CK10).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0179-C.1	0.1 ml
RA0179-C.5	0.5 ml

**Cytokeratin 10 (Suprabasal Epithelial Marker);  
Clone DE-K10 (Concentrate)**

Species: Mouse  
 Immunogen: Cytoskeletal preparation extracted from human ectocervical epithelium.  
 Clone: DE-K10  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Dog and Cat. Others not known.  
 Positive Control: Esophagus or Tonsil. A431, HeLa, MCF7 cells.  
 Specificity: This antibody recognizes a protein of 56.5kDa identified as Cytokeratin 10.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0460-C.1	0.1 ml
RA0460-C.5	0.5 ml
RA0460-C1	1 ml

**Cytokeratin 10 (Suprabasal Epithelial Marker);  
Clone KRT10/844 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human KRT10 protein  
 Clone: KRT10/844  
 Isotype: IgG1, kappa  
 Species Reactivity: Human and Mouse. Others not known.  
 Positive Control: A431, HeLa, MCF7 cells or Esophagus.  
 Specificity: This antibody recognizes a protein of 56.5kDa, identified as cytokeratin 10 (CK10).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0180-C.1	0.1 ml
RA0180-C.5	0.5 ml

**Cytokeratin 14 (KRT14) (Squamous Cell Marker);  
Clone LL002 (Concentrate)**

Species: Mouse  
 Immunogen: A synthetic peptide of 15 amino acids from the C-terminus of human keratin 14.  
 Clone: LL002  
 Isotype: IgG3  
 Species Reactivity: Human, Mouse, and Rat. Others not known.  
 Positive Control: A431 cells. Skin or Squamous cell carcinoma.  
 Specificity: Anti-CK14 is useful in differentiating squamous cell carcinomas from poorly differentiated epithelial tumors. Anti-CK14 is one of the specific basal markers for distinguishing between basal and non-basal subtypes of breast carcinomas. Anti-CK14 is also a good marker for differentiation of intraductal from invasive salivary duct carcinoma by the positive staining of basal cells surrounding the in-situ neoplasm as well as for the differentiation of benign prostate from prostate carcinoma. Furthermore, this antibody has been useful in separating oncocytic tumors of the kidney from its renal mimics, and in identifying metaplastic carcinomas of the breast.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0181-C.1	0.1 ml
RA0181-C.5	0.5 ml

**Cytokeratin 17 (KRT17) (Basal Epithelial Marker);  
Clone E3 (Ks17.E3) (Concentrate)**

Species: Mouse  
 Immunogen: The cytoskeletal fraction of rat colon epithelium  
 Clone: E3 (Ks17.E3)  
 Isotype: IgG2b, kappa  
 Species Reactivity: Human, Rat, Cow, Goat and Pig. Others not known.  
 Positive Control: T24 cells or skin.  
 Specificity: This antibody to CK17 is an excellent tool to distinguish myoepithelial cells from luminal epithelium of various glands such as mammary, sweat and salivary. CK17 is expressed in epithelial cells of various origins, such as bronchial epithelial cells and skin appendages. It may be considered as an "epithelial stem cell" marker because the CK17 antibody marks basal cell differentiation.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0182-C.1	0.1 ml
RA0182-C.5	0.5 ml

**Cytokeratin 17 (KRT17) (Basal Epithelial Marker); Clone KRT17/778 (Concentrate)**

Species: Mouse

Immunogen: The cytoskeletal fraction of rat colon epithelium

Clone: KRT17/778

Isotype: IgG2b, kappa

Species Reactivity: Human, Rat, Cow, Goat and Pig. Others not known.

Positive Control: T24 cells or skin.

Specificity: This antibody to CK17 is an excellent tool to distinguish myoepithelial cells from luminal epithelium of various glands such as mammary, sweat and salivary. CK17 is expressed in epithelial cells of various origins, such as bronchial epithelial cells and skin appendages. It may be considered as an "epithelial stem cell" marker because the CK17 antibody marks basal cell differentiation.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0183-C.1	0.1 ml
RA0183-C.5	0.5 ml

**Cytokeratin 18 (KRT18); Clone DA7 (Concentrate)**

Species: Mouse

Immunogen: Human breast cancer PMC 42 cells

Clone: DA7

Isotype: IgG1, kappa

Species Reactivity: Human. Does not react with Mouse, Rat, Sheep, Hamster, Cow, Dog and Pig. Others not known.

Positive Control: MCF-7, HeLa cells, or Breast Cancer.

Specificity: This antibody reacts with a wide variety of simple epithelia. It does not react with stratified squamous epithelia. It reacts with epithelial tumors of the gastrointestinal tract, lung, breast, pancreas, ovary, and thyroid.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0185-C.1	0.1 ml
RA0185-C.5	0.5 ml

**Cytokeratin 18 (KRT18); Clone DC10 (Concentrate)**

Species: Mouse

Immunogen: Human breast cancer PMC 42 cells

Clone: DC10

Isotype: IgG1

Species Reactivity: Human. Does not react with Mouse, Rat, Sheep, Hamster, Cow, Dog and Pig. Others not known.

Positive Control: MCF-7, HeLa, A431 cells or Breast Cancer.

Specificity: This antibody reacts with a wide variety of simple epithelia. It does not react with stratified squamous epithelia. It reacts with epithelial tumors of the gastrointestinal tract, lung, breast, pancreas, ovary, and thyroid.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0184-C.1	0.1 ml
RA0184-C.5	0.5 ml

**Cytokeratin 18 (KRT18); Clone DE-K18 (Concentrate)**

Species: Mouse

Immunogen: Cytoskeletal preparation extracted from the human vulvar squamous carcinoma cell line A431

Clone: DE-K18

Isotype: IgG1, kappa

Species Reactivity: Human, Dog and Cat. Others not known.

Positive Control: MCF-7, HeLa cells, or Breast Cancer.

Specificity: This antibody reacts with a wide variety of simple epithelia. It does not react with stratified squamous epithelia. It reacts with epithelial tumors of the gastrointestinal tract, lung, breast, pancreas, ovary, and thyroid.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0186-C.1	0.1 ml
RA0186-C.5	0.5 ml

**Cytokeratin 18 (KRT18); Clone KRT18/834 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human KRT18 protein

Clone: KRT18/834

Isotype: IgG1

Species Reactivity: Human. Does not react with Mouse, Rat, Sheep, Hamster, Cow, Dog and Pig. Others not known.

Positive Control: MCF-7, HeLa, A431 cells, or Breast Cancer.

Specificity: This antibody reacts with a wide variety of simple epithelia. It does not react with stratified squamous epithelia. It reacts with epithelial tumors of the gastrointestinal tract, lung, breast, pancreas, ovary, and thyroid.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0187-C.1	0.1 ml
RA0187-C.5	0.5 ml

**Cytokeratin 18 (KRT18); Clone KRT18/835 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human KRT18 protein

Clone: KRT18/835

Isotype: IgG1

Species Reactivity: Human. Does not react with Mouse, Rat, Sheep, Hamster, Cow, Dog and Pig. Others not known.

Positive Control: MCF-7, HeLa, A431 cells, or Breast Cancer.

Specificity: This antibody reacts with a wide variety of simple epithelia. It does not react with stratified squamous epithelia. It reacts with epithelial tumors of the gastrointestinal tract, lung, breast, pancreas, ovary, and thyroid.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0188-C.1	0.1 ml
RA0188-C.5	0.5 ml



**Cytokeratin 18 (KRT18); Clone KRT18/836 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human KRT18 protein

Clone: KRT18/836

Isotype: IgG1

Species Reactivity: Human, Dog, and Cat. Others not known.

Positive Control: MCF-7, HeLa, A431 cells, or Breast Cancer.

Specificity: This antibody reacts with a wide variety of simple epithelia. It does not react with stratified squamous epithelia. It reacts with epithelial tumors of the gastrointestinal tract, lung, breast, pancreas, ovary, and thyroid.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0189-C.1	0.1 ml
RA0189-C.5	0.5 ml

**Cytokeratin 19 (KRT19) (Pancreatic Stem Cell Marker); Clone A53-B/A2.26 & BA17 (Concentrate)**

Species: Mouse

Immunogen: Human breast cancer MCF-7 cells (A53-B/A2); Human mammary epithelial organoids (BA17)

Clone: A53-B/A2.26 &amp; BA17

Isotype: IgG2a, kappa (A53-B/A2); IgG1, kappa (BA17)

Species Reactivity: Human and Mouse. Others not known.

Positive Control: MCF-7, HeLa, Hep-G2 cells, breast cancer.

Specificity: This antibody reacts with the rod domain of human cytokeratin-19 (CK19), a polypeptide of 40kDa.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0192-C.1	0.1 ml
RA0192-C.5	0.5 ml

**Cytokeratin 19 (KRT19) (Pancreatic Stem Cell Marker); Clone A53-B/A2.26 (Ks19.1) (Concentrate)**

Species: Mouse

Immunogen: Human breast cancer MCF-7 cells

Clone: A53-B/A2.26 (Ks19.1)

Isotype: IgG2a, kappa

Species Reactivity: Human. Others not known.

Positive Control: MCF-7, HeLa, Hep-G2 cells, breast cancer.

Specificity: This antibody reacts with the rod domain of human cytokeratin-19 (CK19), a polypeptide of 40kDa. Its epitope maps between amino acids 312-335.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0190-C.1	0.1 ml
RA0190-C.5	0.5 ml

**Cytokeratin 19 (KRT19) (Pancreatic Stem Cell Marker); Clone BA17 (Concentrate)**

Species: Mouse

Immunogen: Human mammary epithelial organoids.

Clone: BA17

Isotype: IgG1, kappa

Species Reactivity: Human and Mouse. Others not known.

Positive Control: MCF-7, HeLa cells, breast cancer.

Specificity: This antibody reacts with the rod domain of human cytokeratin-19 (CK19), a polypeptide of 40kDa.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0191-C.1	0.1 ml
RA0191-C.5	0.5 ml

**Cytokeratin 19 (KRT19) (Pancreatic Stem Cell Marker); Clone KRT19/799 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human KRT19 protein

Clone: KRT19/799

Isotype: IgG2a, kappa

Species Reactivity: Human. Others not known.

Positive Control: MCF-7, HeLa, Hep-G2 cells, breast cancer.

Specificity: This antibody reacts with human cytokeratin-19 (CK19), a polypeptide of 40kDa.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0193-C.1	0.1 ml
RA0193-C.5	0.5 ml

**Cytokeratin 19 (KRT19) (Pancreatic Stem Cell Marker); Clone KRT19/800 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human KRT19 protein

Clone: KRT19/800

Isotype: IgG1, kappa

Species Reactivity: Human and Mouse. Others not known.

Positive Control: MCF-7, HeLa cells, breast cancer.

Specificity: This antibody reacts with cytokeratin-19 (CK19), a polypeptide of 40kDa.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0194-C.1	0.1 ml
RA0194-C.5	0.5 ml

**Cytokeratin 7 (Glandular and Transitional Epithelial Marker); Clone K72.7 (Concentrate)**

Species: Mouse

Immunogen: Semi-purified cytokeratin preparation.

Clone: K72.7

Isotype: IgG1Species Reactivity: Human. Others not known.

Positive Control: HeLa cells. Carcinoma of ovary, lung, cervix, or breast.

Specificity: This antibody recognizes an intermediate filament protein (IFP) of 55kDa, which is identified as cytokeratin 7. This antibody is highly specific to cytokeratin 7 and shows no cross-reaction with other IFPs.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0170-C.1	0.1 ml
RA0170-C.5	0.5 ml



**Cytokeratin 7 (Glandular and Transitional Epithelial Marker); Clone KRT7/760 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human KRT7 protein

Clone: KRT7/760

Isotype: IgG1

Species Reactivity: Human. Others not known.

Positive Control: HeLa cells. Carcinoma of ovary, lung, cervix, or breast.

Specificity: This antibody recognizes an intermediate filament protein (IFP) of 55kDa, which is identified as cytokeratin 7. This antibody is highly specific to cytokeratin 7 and shows no cross-reaction with other IFPs.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0171-C.1	0.1 ml
RA0171-C.5	0.5 ml

**Cytokeratin 7 (Glandular and Transitional Epithelial Marker); Clone OV-TL12/30 & K72.7 (Concentrate)**

Species: Mouse

Immunogen: OTN 11, ovarian carcinoma cell line (OV-TL12/30);

Semi-purified cytokeratin preparation (K72.7)

Clone: OV-TL12/30 & K72.7

Isotype: IgG1 (OV-TL12/30 & K72.7)

Species Reactivity: Human. Others not known.

Positive Control: HeLa cells. Carcinoma of ovary, lung, cervix, or breast.

Specificity: This antibody recognizes an intermediate filament protein (IFP) of 55kDa, which is identified as cytokeratin 7. This antibody is highly specific to cytokeratin 7 and shows no cross-reaction with other IFPs.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0172-C.1	0.1 ml
RA0172-C.5	0.5 ml

**Cytokeratin 7 (Glandular and Transitional Epithelial Marker); Clone OV-TL12/30 (Concentrate)**

Species: Mouse

Immunogen: OTN 11, ovarian carcinoma cell line

Clone: OV-TL12/30

Isotype: IgG1

Species Reactivity: Human. Others not known.

Positive Control: HeLa cells. Carcinoma of ovary, lung, cervix, or breast.

Specificity: This antibody recognizes an intermediate filament protein (IFP) of 55kDa, which is identified as cytokeratin 7. This antibody is highly specific to cytokeratin 7 and shows no cross-reaction with other IFPs.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0169-C.1	0.1 ml
RA0169-C.5	0.5 ml

**Cytokeratin 8 (KRT8); Clone 34BH11 (Concentrate)**

Species: Mouse

Immunogen: Cytoskeletal extract of a human hepatocellular carcinoma cell line (Hep3B)

Clone: 34BH11

Isotype: IgM, kappa

Species Reactivity: Human, Monkey, and Rabbit. Others not known.

Positive Control: MCF-7 or A431 cells. Skin, colon, lung, or breast carcinoma.

Specificity: Anti-CK8 does not react with skeletal muscle or nerve cells. Epithelioid sarcoma, chordoma, and adamantinoma show strong positivity corresponding to that of simple epithelia (with antibodies against CK8, CK18 and CK19). Reportedly, anti-CK8 is useful for the differentiation of lobular ("ring-like, perinuclear") from ductal ("peripheral-predominant") carcinoma of the breast.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0178-C.1	0.1 ml
RA0178-C.5	0.5 ml

**Cytokeratin 8 (KRT8); Clone H1 & TS1 (Concentrate)**

Species: Mouse

Immunogen: Cytoskeleton preparation containing cytokeratin 8 (H1); Keratin preparation from a human carcinoma (TS1).

Clone: H1 & TS1

Isotype: IgG1 (H1); IgG1 (TS1).

Species Reactivity: Human, Rat and Zebrafish. Others not known.

Positive Control: MCF-7 or A431 cells. Skin, colon, lung, or breast carcinoma.

Specificity: Anti-CK8 does not react with skeletal muscle or nerve cells. Epithelioid sarcoma, chordoma, and adamantinoma show strong positivity corresponding to that of simple epithelia (with antibodies against CK8, CK18 and CK19). Reportedly, anti-CK8 is useful for the differentiation of lobular ("ring-like, perinuclear") from ductal ("peripheral-predominant") carcinoma of the breast.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0176-C.1	0.1 ml
RA0176-C.5	0.5 ml

**Cytokeratin 8 (KRT8); Clone H1 (Concentrate)**

Species: Mouse

Immunogen: Cytoskeleton preparation containing cytokeratin 8

Clone: H1

Isotype: IgG1

Species Reactivity: Human, Rat, Zebrafish. Others not known.

Positive Control: MCF-7 or A431 cells. Skin, colon, lung, or breast carcinoma.

Specificity: Anti-CK8 does not react with skeletal muscle or nerve cells. Epithelioid sarcoma, chordoma, and adamantinoma show strong positivity corresponding to that of simple epithelia (with antibodies against CK8, CK18 and CK19). Reportedly, anti-CK8 is useful for the differentiation of lobular ("ring-like, perinuclear") from ductal ("peripheral-predominant") carcinoma of the breast.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0173-C.1	0.1 ml
RA0173-C.5	0.5 ml

**Cytokeratin 8 (KRT8); Clone K8/383 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human cytokeratin 8 protein  
 Clone: K8/383  
 Isotype: IgG1  
 Species Reactivity: Human, Rat, Zebrafish. Others not known.  
 Positive Control: MCF-7 or A431 cells. Skin, colon, lung, or breast carcinoma.  
 Specificity: Anti-CK8 does not react with skeletal muscle or nerve cells. Epithelioid sarcoma, chordoma, and adamantinoma show strong positivity corresponding to that of simple epithelia (with antibodies against CK8, CK18 and CK19). Reportedly, anti-CK8 is useful for the differentiation of lobular ("ring-like, perinuclear") from ductal ("peripheral-predominant") carcinoma of the breast.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0174-C.1	0.1 ml
RA0174-C.5	0.5 ml

**Cytokeratin 8 (KRT8); Clone KRT8/818 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human KRT8 protein  
 Clone: KRT8/818  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: MCF-7 or A431 cells. Skin, colon, lung, or breast carcinoma.  
 Specificity: Anti-CK8 does not react with skeletal muscle or nerve cells. Epithelioid sarcoma, chordoma, and adamantinoma show strong positivity corresponding to that of simple epithelia (with antibodies against CK8, CK18 and CK19). Reportedly, anti-CK8 is useful for the differentiation of lobular ("ring-like, perinuclear") from ductal ("peripheral-predominant") carcinoma of the breast.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0177-C.1	0.1 ml
RA0177-C.5	0.5 ml

**Cytokeratin 8 (KRT8); Clone TS1 (Concentrate)**

Species: Mouse  
 Immunogen: Keratin preparation from a human carcinoma  
 Clone: TS1  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Does not react with Rat. Others not known.  
 Positive Control: MCF-7 or A431 cells. Skin, colon, lung, or breast carcinoma.  
 Specificity: The epitope of this antibody is located between aa 343-357. Anti-CK8 does not react with skeletal muscle or nerve cells. Epithelioid sarcoma, chordoma, and adamantinoma show strong positivity corresponding to that of simple epithelia (with antibodies against CK8, CK18 and CK19). Reportedly, anti-CK8 is useful for the differentiation of lobular ("ring-like, perinuclear") from ductal ("peripheral-predominant") carcinoma of the breast.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0175-C.1	0.1 ml
RA0175-C.5	0.5 ml

**Cytokeratin 8/18 (Epithelial Marker); Clone C-43 & DC10 (Concentrate)**

Species: Mouse  
 Immunogen: Cytoskeletal preparation from HeLa epithelioid carcinoma cells (C-43) and PMC-42 breast carcinoma cells of human origin (DC10)  
 Clone: C-43 & DC10  
 Isotype: IgG1, kappa (C-43); IgG1, kappa (DC10)  
 Species Reactivity: Human. Others not known.  
 Positive Control: MCF-7, HeLa, PMC-42, or A431 cells. Skin, colon, lung, or breast carcinoma.  
 Specificity: This antibody cocktail recognizes all simple epithelia including glandular epithelium, for example, thyroid, female breast, gastrointestinal tract, respiratory tract, and urogenital tract including transitional epithelium. All adenocarcinomas and most squamous carcinomas are positive, but keratinizing squamous carcinomas are usually negative.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0388-C.1	0.1 ml
RA0388-C.5	0.5 ml

**Cytokeratin 8/18 (Epithelial Marker); Clone K8.8 & DC10 (Concentrate)**

Species: Mouse  
 Immunogen: Keratin preparation from a human carcinoma (K8.8); PMC-42 human breast carcinoma cells (DC10)  
 Clone: K8.8 & DC10  
 Isotype: IgG1, kappa (K8.8); IgG1, kappa (DC10)  
 Species Reactivity: Human. Others not known.  
 Positive Control: MCF-7 or A431 cells. Skin, Colon, lung or breast carcinoma.  
 Specificity: This antibody cocktail recognizes all simple epithelia including glandular epithelium, for example, thyroid, female breast, gastrointestinal tract, respiratory tract, and urogenital tract including transitional epithelium. All adenocarcinomas and most squamous carcinomas are positive, but keratinizing squamous carcinomas are usually negative.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0387-C.1	0.1 ml
RA0387-C.5	0.5 ml

**Cytokeratin 8; Clone KRT8/899 (Concentrate)**

Species: Mouse  
 Immunogen: Cytoskeletal extract of Hep3B hepatocellular carcinoma cell line of human origin  
 Clone: KRT8/899  
 Isotype: IgM, kappa  
 Species Reactivity: Human, Monkey and Rabbit. Others not known.  
 Positive Control: MCF-7 or A431 cells. Skin, Colon, lung or breast carcinoma.  
 Specificity: This antibody recognizes a 52.5kDa protein known as Cytokeratin 8. Anti-CK8 does not react with skeletal muscle or nerve cells. Epithelioid sarcoma, chordoma, and adamantinoma show strong positivity corresponding to that of simple epithelia (with antibodies against CK8, CK18 and CK19).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0441-C.1	0.1 ml
RA0441-C.5	0.5 ml
RA0441-C1	1 ml

**Cytokeratin, Acidic (Type I or LMW) (Epithelial Marker); Clone AE-1 (Concentrate)**

Species: Mouse  
 Immunogen: Human epidermal keratin  
 Clone: AE-1  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Monkey, Cow, Dog, Rabbit, Mouse, Rat, Chicken, Turtle. Others not known.  
 Positive Control: Skin, Squamous cell carcinoma (SCC).  
 Specificity: This antibody recognizes the 56.5kDa (CK10); 50kDa (CK14); 50kDa (CK15); 48kDa (CK16); 40kDa (CK19) keratins of the acidic (Type I or LMW) subfamily.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0385-C.1	0.1 ml
RA0385-C.5	0.5 ml

**Cytokeratin, Acidic (Type I or LMW) (Epithelial Marker); Clone KRTL (Concentrate)**

Species: Mouse  
 Immunogen: Keratin preparation from a human carcinoma  
 Clone: KRTL  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Shows broad species reactivity.  
 Positive Control: Skin, Squamous cell carcinoma (SCC).  
 Specificity: This antibody recognizes the 56.5kDa (CK10); 50kDa (CK14); 50kDa (CK15); 48kDa (CK16); 40kDa (CK19) keratins of the acidic (Type I or LMW) subfamily.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0389-C.1	0.1 ml
RA0389-C.5	0.5 ml

**Cytokeratin, Basic (Type II or HMW) (Epithelial Marker); Clone 34BE12 (Concentrate)**

Species: Mouse  
 Immunogen: Solubilized keratin extract from human stratum corneum  
 Clone: 34BE12  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Mouse, and Rat. Others not known.  
 Positive Control: PC12 cells, skin, prostate carcinoma.  
 Specificity: This antibody recognizes CK1, CK5, CK10, and CK14. In normal epithelia, it stains stratified epithelia, myoepithelial cells, and basal cells in the prostate gland and bronchi. This antibody shows no reactivity with hepatocytes, pancreatic acinar cells, proximal renal tubules, or endometrial glands; there is no reactivity with cells derived from simple epithelia. Mesenchymal tumors, lymphomas, melanomas, neural tumors, and neuroendocrine tumors are negative with this antibody.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0383-C.1	0.1 ml
RA0383-C.5	0.5 ml

**Cytokeratin, Basic (Type II or HMW) (Epithelial Marker); Clone AE-3 (Concentrate)**

Species: Mouse  
 Immunogen: Human epidermal keratin  
 Clone: AE-3  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Monkey, Cow, Dog, Rabbit, Mouse, Rat, Chicken. Others not known.  
 Positive Control: Epithelial cells, skin or adenocarcinomas.  
 Specificity: This antibody recognizes basic (Type II or HMW) cytokeratins, which include 67kDa (CK1); 64kDa (CK3); 59kDa (CK4); 58kDa (CK5); 56kDa (CK6); 52kDa (CK8).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0386-C.1	0.1 ml
RA0386-C.5	0.5 ml

**Cytokeratin, Basic (Type II or HMW) (Epithelial Marker); Clone KRTH (Concentrate)**

Species: Mouse  
 Immunogen: Keratin preparation from a human carcinoma  
 Clone: KRTH  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Shows broad species reactivity.  
 Positive Control: Skin, Adenocarcinomas.  
 Specificity: This antibody recognizes basic (Type II or HMW) cytokeratins, which include 67kDa (CK1); 64kDa (CK3); 59kDa (CK4); 58kDa (CK5); 56kDa (CK6); 52kDa (CK8).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0390-C.1	0.1 ml
RA0390-C.5	0.5 ml

**Cytokeratin, Multi (Epithelial Marker); Clone C11 (Concentrate)**

Species: Mouse  
 Immunogen: Keratin-enriched preparation from cultured human A431  
 Clone: C11  
 Isotype: IgG1  
 Species Reactivity: Human, Cow, Rat, Mouse, Guinea pig, Frog, Goat, Marmoset, and Pig. Others not known.  
 Positive Control: A431 cells, skin, colon carcinoma.  
 Specificity: This antibody recognizes cytokeratins 4, 5, 6, 8, 10, 13, and 18.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0381-C.1	0.1 ml
RA0381-C.5	0.5 ml

**Cytokeratin, Pan (Epithelial Marker); Clone AE-1 & AE-3 (Concentrate)**

Species: Mouse  
 Immunogen: Human epidermal keratin  
 Clone: AE-1 & AE-3  
 Isotype: IgG1, kappa (AE-1); IgG1, kappa (AE-3)  
 Species Reactivity: Human, Monkey, Cow, Dog, Rabbit, Mouse, Rat, Chicken. Others not known.  
 Positive Control: Skin, Adeno- or Squamous carcinomas.  
 Specificity: This antibody cocktail recognizes acidic (Type I or LMW) and basic (Type II or HMW) cytokeratins, which include 67kDa (CK1); 64kDa (CK3); 59kDa (CK4); 58kDa (CK5); 56kDa (CK6); 52kDa (CK8); 56.5kDa (CK10); 50kDa (CK14); 50kDa (CK15); 48kDa (CK16); 40kDa (CK19). This antibody stains cytokeratins present in normal and abnormal human tissues and has shown high sensitivity in the recognition of epithelial cells and carcinomas.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0382-C.1	0.1 ml
RA0382-C.5	0.5 ml

**Cytokeratin, Pan (Epithelial Marker); Clone KRTL & KRTH (Concentrate)**

Species: Mouse  
 Immunogen: Keratin preparation from a human carcinoma  
 Clone: KRTL & KRTH  
 Isotype: IgG1, kappa (KRTL); IgG1, kappa (KRTH)  
 Species Reactivity: Human. Shows broad species reactivity.  
 Positive Control: Skin, Adeno- or Squamous carcinomas.  
 Specificity: This antibody cocktail recognizes acidic (Type I or LMW) and basic (Type II or HMW) cytokeratins, which include CK1, CK3, CK4, CK5, CK6, CK8, CK10, CK14, CK15, CK16, and CK19. This antibody stains cytokeratins present in normal and abnormal human tissues and has shown high sensitivity in the recognition of epithelial cells and carcinomas.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0391-C.1	0.1 ml
RA0391-C.5	0.5 ml
RA0391-C1	1 ml

**Cytokeratin, pan (Epithelial Marker); Clone PAN-CK (Concentrate)**

Species: Mouse  
 Immunogen: Human epidermal keratin  
 Clone: PAN-CK  
 Isotype: IgG's, kappa  
 Species Reactivity: Human, Monkey, Cow, Dog, Rabbit, Mouse, Rat, Chicken. Others not known.  
 Positive Control: Skin, Adeno- or Squamous carcinomas  
 Specificity: This antibody cocktail recognizes acidic (Type I or LMW) and basic (Type II or HMW) cytokeratins, with 67kDa (CK1); 64kDa (CK3); 59kDa (CK4); 58kDa (CK5); 56kDa (CK6); 55kDa (CK7); 52kDa (CK8); 56.5kDa (CK10); 53kDa (CK13); 50kDa (CK14); 50kDa (CK15); 48kDa (CK16); 46kDa (CK17); 45kDa (CK18) and 40kDa (CK19). This antibody stains cytokeratins present in normal and abnormal human tissues and shows high sensitivity in the recognition of epithelial cells and carcinomas.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0430-C.5	0.5 ml

**Desmin (Muscle Cell Marker); Clone D33 (Concentrate)**

Species: Mouse  
 Immunogen: Proteins from human Leiomyoma.  
 Clone: D33  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Rat, Mouse, Hamster, Chicken.  
 Others not known.  
 Positive Control: Muscle, Uterus, Leiomyosarcoma or SJRH30 cells.  
 Specificity: Desmin, Clone D33 detects cells of normal smooth, skeletal, and cardiac muscles. This antibody reacts with leiomyomas, leiomyosarcoma, rhabdomyomas, rhabdomyosarcoma, and perivascular cells of glomus tumors of the skin.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0459-C.1	0.1 ml
RA0459-C.5	0.5 ml
RA0459-C1	1 ml

**Desmin (Muscle Cell Marker); Clone DES/1711 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human full-length desmin protein.  
 Clone: DES/1711  
 Isotype: IgG1, kappa  
 Species Reactivity: Reacts with human, mouse, rat, hamster, and chicken. Others not known.  
 Positive Control: SJRH30 Cells. Uterus or Leiomyosarcoma.  
 Specificity: Recognizes a 52kDa protein known as Desmin.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0554-C.1	0.1 ml
RA0554-C.5	0.5 ml
RA0554-C1	1 ml

**DOG-1 / TMEM16A (Marker for Gastrointestinal Stromal Tumors); Clone DG1/447 & DOG-1.1 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human DOG-1 protein (DG1/447); A synthetic peptide from human DOG-1 protein (MSDFVDWVIPDKDISQIHKEKVLMLVFMREEQDKQLLETCMEKERQKDEPPCNHNTKACPDSLGPAPSHAYHGGVL), conjugated to a carrier protein (DOG-1.1).  
 Clone: DG1/447 & DOG-1.1  
 Isotype: IgG1, kappa (DG1/447 & DOG-1.1)  
 Species Reactivity: Human. Others not known.  
 Positive Control: Gastrointestinal Stromal Tumor (GIST) or testicular germ cell tumor. Melanocytes in the basal layer of the epidermis and mast cells in the dermis of normal skin.  
 Specificity: This monoclonal antibody recognizes Human DOG1. It is a sensitive and specific immunohistochemical marker for GIST, comparable with c-Kit, with the additional benefit of detecting c-Kit-negative GISTs. It is also a sensitive marker for unusual GIST subgroups lacking c-Kit or PDGFRA mutations.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0364-C.1	0.1 ml
RA0364-C.5	0.5 ml

**DOG-1 / TMEM16A (Marker for Gastrointestinal Stromal Tumors); Clone DG1/447 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human DOG-1 protein  
 Clone: DG1/447  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Gastrointestinal Stromal Tumor (GIST) or testicular germ cell tumor. Melanocytes in the basal layer of the epidermis and mast cells in the dermis of normal skin.  
 Specificity: This monoclonal antibody recognizes Human DOG1.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0362-C.1	0.1 ml
RA0362-C.5	0.5 ml

**DOG-1 / TMEM16A (Marker for Gastrointestinal Stromal Tumors); Clone DOG-1.1 (Concentrate)**

Species: Mouse  
 Immunogen: A synthetic peptide from human DOG-1 protein (MSDFVDWVIPDIPKDISQIHKVLMVELFMREEQDKQLLETCEMEK ERQKDEPPCNHHNTKACPDLSGSPASHAYHGGVL), conjugated to a carrier protein.  
 Clone: DOG-1.1  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Gastrointestinal Stromal Tumor (GIST) or testicular germ cell tumor. Melanocytes in the basal layer of the epidermis and mast cells in the dermis of normal skin.  
 Specificity: DOG1.1 is a sensitive and specific immunohistochemical marker for GIST, comparable with c-Kit, with the additional benefit of detecting c-Kit-negative GISTs. DOG1.1 is also a sensitive marker for unusual GIST subgroups lacking c-Kit or PDGFRA mutations.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0363-C.1	0.1 ml
RA0363-C.5	0.5 ml

**Double Stranded DNA (dsDNA) (Nuclear Marker); Clone 121-3 (Concentrate)**

Species: Mouse  
 Immunogen: Nuclei of Raji Burkitt's cells  
 Clone: 121-3  
 Isotype: IgG3, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Tonsil  
 Specificity: This antibody recognizes the double stranded DNA in human cells. It can be used to stain the nuclei in cell or tissue preparations and can be used as a nuclear marker in human cells.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0417-C.1	0.1 ml
RA0417-C.5	0.5 ml

**Double Stranded DNA (dsDNA) (Nuclear Marker); Clone AE-2 (Concentrate)**

Species: Mouse  
 Immunogen: Nuclei of Raji Burkitt's cells  
 Clone: AE-2  
 Isotype: IgG3, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Tonsil  
 Specificity: This antibody recognizes the double stranded DNA in human cells. It can be used to stain the nuclei in cell or tissue preparations and can be used as a nuclear marker in human cells.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0418-C.1	0.1 ml
RA0418-C.5	0.5 ml

**EGFR (Epidermal Growth Factor Receptor); Clone GFR450 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human EGFR protein  
 Clone: GFR450  
 Isotype: IgG2a, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: A431 cells. Breast or bladder cancer.  
 Specificity: This antibody recognizes a protein of 170kDa, identified as EGFR.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0107-C.1	0.1 ml
RA0107-C.5	0.5 ml

**Ep-CAM / CD326 (Epithelial Marker); Clone EGP40/826 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human TACSTD1 protein  
 Clone: EGP40/826  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: HT29 cells or breast tumor.  
 Specificity: Recognizes a 40-43kDa transmembrane epithelial glycoprotein, identified as epithelial specific antigen (ESA), or epithelial cellular adhesion molecule (Ep-CAM).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0199-C.1	0.1 ml
RA0199-C.5	0.5 ml

**Ep-CAM / CD326 (Epithelial Marker); Clone EGP40/837 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human TACSTD1 protein  
 Clone: EGP40/837  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: HT29 cells or breast tumor.  
 Specificity: This antibody has been used to distinguish adenocarcinoma from pleural mesothelioma and hepatocellular carcinoma. This antibody is also useful in distinguishing serous carcinomas of the ovary from mesothelioma.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0200-C.1	0.1 ml
RA0200-C.5	0.5 ml

**Ep-CAM / CD326 (Epithelial Marker); Clone HEA125 (Concentrate)**

Species: Mouse  
 Immunogen: Human colon cancer HT29 cells  
 Clone: HEA125  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: HT29 cells or breast tumor.  
 Specificity: Recognizes a 40-43kDa transmembrane epithelial glycoprotein, identified as epithelial specific antigen (ESA), or epithelial cellular adhesion molecule (Ep-CAM). In immunoprecipitation experiments, the Ber-EP4 antibody blocks the reaction of the HEA125 antibody with MCF-7 cell lysate and vice versa, showing that the two antibodies react with the same antigen. The two antibodies also produce identical staining results in cells and tissues. Of the 37 cell lines tested, the antibody homogeneously labels all (10/10) carcinoma cell lines, whereas all non-epithelial cell lines (26/27) are negative except for the erythromyeloid cell line K562.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0198-C.1	0.1 ml
RA0198-C.5	0.5 ml

**Ep-CAM / CD326 (Epithelial Marker); Clone MOC-31 (Concentrate)**

Species: Mouse  
 Immunogen: Neuraminidase treated GLS-1 human small cell lung carcinoma cells  
 Clone: MOC-31  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Does not react with Rat. Others not known.  
 Positive Control: HT29 cells or breast tumor.  
 Specificity: The epitope of this antibody is located in the first EGF-like repeat domain (EGF1) between amino acids 27-59 of Ep-CAM. This antibody has been used to distinguish adenocarcinoma from pleural mesothelioma and hepatocellular carcinoma. This antibody is also useful in distinguishing serous carcinomas of the ovary from mesothelioma.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0196-C.1	0.1 ml
RA0196-C.5	0.5 ml

**Ep-CAM / CD326 (Epithelial Marker); Clone VU-1D9 (Concentrate)**

Species: Mouse  
 Immunogen: Small cell lung carcinoma cells  
 Clone: VU-1D9  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Does not react with Rat. Others not known.  
 Positive Control: HT29 cells or breast tumor.  
 Specificity: This antibody has been used to distinguish adenocarcinoma from pleural mesothelioma and hepatocellular carcinoma. This antibody is also useful in distinguishing serous carcinomas of the ovary from mesothelioma.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0195-C.1	0.1 ml
RA0195-C.5	0.5 ml

**ER beta-1 (Estrogen Receptor beta-1); Clone ERb455 (Concentrate)**

Species: Mouse  
 Immunogen: C-terminus fragment of recombinant human estrogen receptor beta protein  
 Clone: ERb455  
 Isotype: IgG2a  
 Species Reactivity: Human, Monkey, Mouse, Rat, Pig, Horse and Sheep. Others not known.  
 Positive Control: Ovarian, breast or prostate carcinoma.  
 Specificity: Nuclear positivity in estrogen receptor beta positive tumors.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0111-C.1	0.1 ml
RA0111-C.5	0.5 ml

**Erythropoietin (EPO); Clone EPO/1367 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant fragment of human EPO protein (aa28-162) (exact sequence is proprietary).  
 Clone: EPO/1367  
 Isotype: IgG  
 Species Reactivity: Reacts with human. Others not known.  
 Positive Control: HepG2 Cells. Heart or Kidney.  
 Specificity: Recognizes a protein of about 37kDa, which is identified as Erythropoietin (EPO).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0436-C.1	0.1 ml
RA0436-C.5	0.5 ml
RA0436-C1	1 ml



**Erythropoietin (EPO); Clone EPO/1368 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant fragment of human EPO protein (aa28-162) (exact sequence is proprietary).  
 Clone: EPO/1368  
 Isotype: IgG  
 Species Reactivity: Reacts with human. Others not known.  
 Positive Control: HepG2 Cells. Heart or Kidney.  
 Specificity: Recognizes a protein of about 37kDa, which is identified as Erythropoietin (EPO).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0445-C.1	0.1 ml
RA0445-C.5	0.5 ml
RA0445-C1	1 ml

**Estrogen Receptor (Marker of Estrogen Dependence); Clone ER505 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human Estrogen Receptor alpha protein (aa 2-185)  
 Clone: ER505  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: MCF-7 cells or breast cancers.  
 Specificity: This antibody is specific to ER alpha and shows minimal cross-reaction with other members of the family.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0110-C.1	0.1 ml
RA0110-C.5	0.5 ml

**Fascin-1 (Reed-Sternberg Cell Marker); Clone FSCN1/417 (Concentrate)**

Species: Mouse  
 Immunogen: Full length recombinant human FSCN1 protein  
 Clone: FSCN1/417  
 Isotype: IgG2a, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: HeLa, MCF-7, PC-3 or BEWO cells. Hodgkin's lymphoma, Ovarian, or Testicular Carcinoma.  
 Specificity: This antibody recognizes a protein of 55kDa, which is identified as fascin-1.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0450-C.1	0.1 ml
RA0450-C.5	0.5 ml
RA0450-C1	1 ml

**Fascin-1; Clone FSCN1/417 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human fascin protein  
 Clone: FSCN1/417  
 Isotype: IgG2a, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: HeLa cells. Thymus, spleen or Hodgkin's lymphoma.  
 Specificity: Recognizes a protein of 55kDa, which is identified as fascin-1. This antibody to fascin-1 is a very sensitive marker for Reed-Sternberg cells and variants in nodular sclerosis, mixed cellularity, and lymphocyte depletion Hodgkin disease. It is uniformly negative in lymphoid cells, plasma cells, and myeloid cells.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0296-C.1	0.1 ml
RA0296-C.5	0.5 ml

**FSH-beta (Follicle Stimulating Hormone-beta); Clone FSHb/1062 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant hFSH beta subunit  
 Clone: FSHb/1062  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Anterior Pituitary  
 Specificity: This antibody reacts with a protein of 22kDa, identified as the beta subunit of Follicle Stimulating Hormone (FSH). It does not cross react with the alpha subunit.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0435-C.1	0.1 ml
RA0435-C.5	0.5 ml
RA0435-C1	1 ml

**GFAP (Astrocyte & Neural Stem Cell Marker); Clone ASTRO/789 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant GFAP protein  
 Clone: ASTRO/789  
 Isotype: IgG1  
 Species Reactivity: Human, Mouse, Rat, Cow, Pig, Rabbit, and Chicken. Others not known.  
 Positive Control: Brain or Astrocytoma.  
 Specificity: This antibody recognizes a protein of ~50kDa which is identified as Glial Fibrillary Acidic Protein (GFAP). It shows no cross-reaction with other intermediate filament proteins.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0122-C.1	0.1 ml
RA0122-C.5	0.5 ml



**GFAP (Astrocyte & Neural Stem Cell Marker);  
Clone GA-5 & ASTRO/789 (Concentrate)**

Species: Mouse  
 Immunogen: GFAP isolated from pig spinal cord (GA-5);  
 Recombinant GFAP protein (ASTRO/789)  
 Clone: GA-5 & ASTRO/789  
 Isotype: IgG1 (GA-5); IgG1 (ASTRO/789)  
 Species Reactivity: Human, Mouse, Rat, Cow, Pig, Rabbit, Chicken. Others not known.  
 Positive Control: Brain or Astrocytoma.  
 Specificity: This antibody recognizes a protein of ~50kDa which is identified as Glial Fibrillary Acidic Protein (GFAP). It shows no cross-reaction with other intermediate filament proteins.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0123-C.1	0.1 ml
RA0123-C.5	0.5 ml

**GFAP (Astrocyte & Neural Stem Cell Marker);  
Clone GA-5 (Concentrate)**

Species: Mouse  
 Immunogen: GFAP isolated from pig spinal cord  
 Clone: GA-5  
 Isotype: IgG1  
 Species Reactivity: Human, Mouse, Rat, Cow, Pig, Rabbit, Chicken. Others not known.  
 Positive Control: Brain or Astrocytoma.  
 Specificity: This antibody recognizes a protein of ~50kDa which is identified as Glial Fibrillary Acidic Protein (GFAP). It shows no cross-reaction with other intermediate filament proteins.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0121-C.1	0.1 ml
RA0121-C.5	0.5 ml

**Glycophorin A / CD235a (Erythrocyte Marker);  
Clone GYP A/280 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human glycophorin A protein  
 Clone: GYP A/280  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not tested.  
 Positive Control: Erythrocytes  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0438-C.1	0.1 ml
RA0438-C.5	0.5 ml
RA0438-C1	1 ml

**Glypican-3 (GPC3) (Marker of Hepatocellular  
Carcinoma); Clone 1G12 & GPC3/863 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant fragment containing amino acids 511-580 of human glypican-3 (1G12); Recombinant human GPC3 protein (GPC3/863).  
 Clone: 1G12 & GPC3/863  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T cells or Hepatocellular carcinoma.  
 Specificity: Anti-GPC3 has been identified as a useful tumor marker for the diagnosis of hepatocellular carcinoma (HCC), hepatoblastoma, melanoma, testicular germ cell tumors, and Wilm's tumor.

<u>Catalog Number</u>	<u>Volume</u>
RA0126-C.1	0.1 ml
RA0126-C.5	0.5 ml

**Glypican-3 (GPC3) (Marker of Hepatocellular  
Carcinoma); Clone 1G12 (Concentrate)**

Species: Mouse  
 Immunogen: A recombinant fragment containing amino acids 511-580 of human glypican-3  
 Clone: 1G12  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T cells or Hepatocellular carcinoma.  
 Specificity: Anti-GPC3 has been identified as a useful tumor marker for the diagnosis of hepatocellular carcinoma (HCC), hepatoblastoma, melanoma, testicular germ cell tumors, and Wilm's tumor.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0124-C.1	0.1 ml
RA0124-C.5	0.5 ml

**Glypican-3 (GPC3) (Marker of Hepatocellular  
Carcinoma); Clone GPC3/863 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human GPC3 protein  
 Clone: GPC3/863  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T cells or Hepatocellular carcinoma.  
 Specificity: Anti-GPC3 has been identified as a useful tumor marker for the diagnosis of hepatocellular carcinoma (HCC), hepatoblastoma, melanoma, testicular germ cell tumors, and Wilm's tumor.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0125-C.1	0.1 ml
RA0125-C.5	0.5 ml

**GM-CSF (Granulocyte/Macrophage - Colony Stimulating Factor); Clone BVD2-21C11 (Concentrate)**

Species: Rat.  
 Immunogen: Recombinant human GM-CSF protein.  
 Clone: BVD2-21C11  
 Isotype: IgG2a, kappa.  
 Species Reactivity: Reacts with human, cynomolgus, and rhesus monkey. Others not known.  
 Positive Control: Lymph node and tonsil.  
 Specificity: Recognizes a protein of 22kDa identified as Granulocyte/macrophage - Colony-stimulating factor (GM-CSF).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0538-C.1	0.1 ml
RA0538-C.5	0.5 ml
RA0538-C1	1 ml

**GnRH-Receptor / LH-RH Receptor; Clone A9E4 (Concentrate)**

Species: Mouse  
 Immunogen: A synthetic peptide of aa 1-29 (MANSASPEQNHQCSAINNSIPLMQGNLPY) from the N-terminus of human GnRH receptor.  
 Clone: A9E4  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Predicted to react with Pig and Rabbit. Others not known.  
 Positive Control: T47D cells. Pituitary gland, ovarian or breast cancers.  
 Specificity: Recognizes an epitope on the extracellular domain of gonadotropin releasing hormone (GnRH) receptor or luteinizing hormone receptor (LHCGR).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0127-C.1	0.1 ml
RA0127-C.5	0.5 ml

**GnRH-Receptor / LH-RH Receptor; Clone F1G4 (Concentrate)**

Species: Mouse  
 Immunogen: A synthetic peptide consisting of amino acids 1-29 (MANSASPEQNHQCSAINNSI PLMQGNLPY) from the N-terminus of the human GnRH receptor.  
 Clone: F1G4; same as GNRH03  
 Isotype: IgG1, kappa  
 Species Reactivity: Human and Rat. Predicted to react with Pig and Rabbit. Others not known.  
 Positive Control: T47D cells. Pituitary gland, ovarian or breast cancers.  
 Specificity: This antibody recognizes an epitope on the extracellular domain of the gonadotropin releasing hormone (GnRH) receptor or luteinizing hormone receptor (LHCGR).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0437-C.1	0.1 ml
RA0437-C.5	0.5 ml
RA0437-C1	1 ml

**GnRH-Receptor / LH-RH Receptor; Clone HH7/768 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human GNRHR protein  
 Clone: HH7/768  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: T47D cells. Pituitary gland, ovarian or breast cancers.  
 Specificity: Recognizes an epitope on the extracellular domain of gonadotropin releasing hormone (GnRH) receptor or luteinizing hormone receptor (LHCGR).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0128-C.1	0.1 ml
RA0128-C.5	0.5 ml

**gp100 / Melanosome / PMEL17 / SILV (Melanoma Marker); Clone HMB45 & PMEL/783 (Concentrate)**

Species: Mouse  
 Immunogen: Extract of pigmented melanoma metastases from lymph nodes (HMB45); Recombinant human SILV protein (PMEL/783)  
 Clone: HMB45 & PMEL/783  
 Isotype: IgG1, kappa (HMB45); IgG1, kappa (PMEL/783)  
 Species Reactivity: Human. Others not tested.  
 Positive Control: SK-MEL-28 cells or Melanoma.  
 Specificity: By immunohistochemistry, this antibody specifically recognizes a protein in melanocytes and melanomas. This antibody reacts with junctional and blue nevus cells and variably with fetal and neonatal melanocytes. Intradermal nevi, normal adult melanocytes, and non-melanocytic cells are negative. It does not stain tumor cells of epithelial, lymphoid, glial, or mesenchymal origin. This antibody also stains Angiomyolipoma (PEComa).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0294-C.1	0.1 ml
RA0294-C.5	0.5 ml

**gp100 / Melanosome / PMEL17 / SILV (Melanoma Marker); Clone HMB45 (Concentrate)**

Species: Mouse  
 Immunogen: Extract of pigmented melanoma metastases from lymph nodes  
 Clone: HMB45  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Does not react with Dog and Rat. Others not tested.  
 Positive Control: SK-MEL-28 cells or Melanoma.  
 Specificity: By immunohistochemistry, this antibody specifically recognizes a protein in melanocytes and melanomas. This antibody reacts with junctional and blue nevus cells and variably with fetal and neonatal melanocytes. Intradermal nevi, normal adult melanocytes, and non-melanocytic cells are negative. It does not stain tumor cells of epithelial, lymphoid, glial, or mesenchymal origin. This antibody also stains Angiomyolipoma (PEComa).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0292-C.1	0.1 ml
RA0292-C.5	0.5 ml

**gp100 / Melanosome / PMEL17 / SILV (Melanoma Marker); Clone PMEL/783 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human SILV protein  
 Clone: PMEL/783  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not tested.  
 Positive Control: SK-MEL-28 cells or Melanoma.  
 Specificity: gp100, also designated ME20-M, ME20-S and PMEL 17, is classified as a melanocyte differentiation antigen and is expressed at low levels in normal cell lines and tissues, but is upregulated in melanocytes.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0293-C.1	0.1 ml
RA0293-C.5	0.5 ml

**Granulocyte-Colony Stimulating Factor (G-CSF); Clone CSF3/900 (Concentrate)**

Species: Mouse.  
 Immunogen: Human recombinant full-length CSF3 protein.  
 Clone: CSF3/900  
 Isotype: IgG1  
 Species Reactivity: Reacts with human and macaque monkey. Others not known.  
 Positive Control: HL60 cells, tonsil, or lymph node.  
 Specificity: This monoclonal antibody recognizes granulocyte-colony stimulating factor (G-CSF) in the cytoplasm of mature granulocytes. It shows no reactivity with any other cell types. It reacts with early precursor and mature forms of myeloid cells.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0540-C.1	0.1 ml
RA0540-C.5	0.5 ml
RA0540-C1	1 ml

**Granulocyte-Colony Stimulating Factor (G-CSF); Clone SPM468 (Concentrate)**

Species: Mouse.  
 Immunogen: Nuclei from pokeweed mitogen stimulated human peripheral blood lymphocytes.  
 Clone: SPM468  
 Isotype: IgG1  
 Species Reactivity: Reacts with human and macaque monkey. Others not known.  
 Positive Control: HL60 cells, tonsil, or lymph node.  
 Specificity: This monoclonal antibody recognizes granulocyte-colony stimulating factor (G-CSF) in the cytoplasm of mature granulocytes. It shows no reactivity with any other cell types. It reacts with early precursor and mature forms of myeloid cells.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0541-C.1	0.1 ml
RA0541-C.5	0.5 ml
RA0541-C1	1 ml

**hCG Holo (Pregnancy & Choriocarcinoma Marker); Clone HCGab/52 (Concentrate)**

Species: Mouse  
 Immunogen: Purified hCG protein  
 Clone: HCGab/52  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: JAR or TT Cells. Placenta.  
 Specificity: This antibody is very specific because it reacts ONLY with intact hCG and not with either the free alpha- or free beta-chain of hCG.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0399-C.1	0.1 ml
RA0399-C.5	0.5 ml

**HCG-alpha (Pregnancy & Choriocarcinoma Marker); Clone SPM552 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant hCG alpha protein.  
 Clone: SPM552  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Placenta.  
 Specificity: This monoclonal antibody reacts with a protein of ~13kDa, identified as HCG-alpha, a sub-unit of HCG.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0504-C.1	0.1 ml
RA0504-C.5	0.5 ml
RA0504-C1	1 ml

**hCG-alpha; Clone HCGa/53 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant hCG alpha protein  
 Clone: HCGa/53  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: JAR or TT Cells. Placenta.  
 Specificity: This monoclonal antibody reacts with a protein of ~13kDa, identified as the alpha subunit of hCG.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0086-C.1	0.1 ml
RA0086-C.5	0.5 ml

**HCG-beta (Pregnancy & Choriocarcinoma Marker); Clone HCGb/211 (Concentrate)**

Species: Mouse  
 Immunogen: Purified human HCG-beta.  
 Clone: HCGb/211  
 Isotype: IgG1  
 Species Reactivity: Reacts with human. Others not known.  
 Positive Control: Placenta.  
 Specificity: This monoclonal antibody reacts with a protein of 22kDa, identified as HCG-beta, a sub-unit of HCG. It does not cross react with the alpha sub-unit.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0508-C.1	0.1 ml
RA0508-C.5	0.5 ml
RA0508-C1	1 ml

**hCG-beta (Pregnancy & Choriocarcinoma Marker);  
Clone HCGb/459 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant hCG beta protein  
 Clone: HCGb/459  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: JAR or TT Cells. Placenta.  
 Specificity: This monoclonal antibody reacts with a protein of 22kDa, identified as the beta subunit of hCG. It does not cross react with the alpha subunit. This hCG detects cells and tumors of trophoblastic origin such as choriocarcinoma. Large cell carcinoma and adenocarcinoma of the lung demonstrate anti-hCG positivity in 90% and 60% of cases, respectively. 20% of lung squamous cell carcinomas are positive. hCG expression by non-trophoblastic tumors may indicate aggressive behavior.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0088-C.1	0.1 ml
RA0088-C.5	0.5 ml

**hCG-beta (Pregnancy & Choriocarcinoma Marker);  
Clone HCGb/54 & HCGb/459 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant hCG beta protein (HCGb/54 and HCGb/459)  
 Clone: HCGb/54 & HCGb/459  
 Isotype: IgG1, kappa (HCGb/54 and HCGb/459)  
 Species Reactivity: Human. Others not known.  
 Positive Control: JAR or TT Cells. Placenta.  
 Specificity: This monoclonal antibody reacts with a protein of 22kDa, identified as the beta subunit of hCG. It does not cross react with the alpha subunit. hCG antibody detects cells and tumors of trophoblastic origin such as choriocarcinoma. Large cell carcinoma and adenocarcinoma of the lung demonstrate anti-hCG positivity in 90% and 60% of cases, respectively. 20% of lung squamous cell carcinomas are positive. hCG expression by non-trophoblastic tumors may indicate aggressive behavior.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0089-C.1	0.1 ml
RA0089-C.5	0.5 ml

**hCG-beta (Pregnancy & Choriocarcinoma Marker);  
Clone HCGb/54 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant hCG beta protein  
 Clone: HCGb/54  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: JAR or TT Cells. Placenta.  
 Specificity: This monoclonal antibody reacts with a protein of 22kDa, identified as the beta subunit of hCG. It does not cross react with the alpha subunit. This hCG antibody detects cells and tumors of trophoblastic origin such as choriocarcinoma. Large cell carcinoma and adenocarcinoma of the lung demonstrate anti-hCG positivity in 90% and 60% of cases, respectively. 20% of lung squamous cell carcinomas are positive. hCG expression by non-trophoblastic tumors may indicate aggressive behavior.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0087-C.1	0.1 ml
RA0087-C.5	0.5 ml

**HCG-beta (Pregnancy & Choriocarcinoma Marker);  
Clone SPM105 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant hCG beta protein.  
 Clone: SPM105  
 Isotype: IgG1, kappa  
 Species Reactivity: Reacts with human. Others not known.  
 Positive Control: Placenta.  
 Specificity: This monoclonal antibody reacts with a protein of 22kDa, identified as HCG-beta, a sub-unit of HCG. It does not cross react with the HCG-alpha sub-unit.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0506-C.1	0.1 ml
RA0506-C.5	0.5 ml
RA0506-C1	1 ml

**HCG-beta (Pregnancy & Choriocarcinoma Marker);  
Clone SPM529 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant hCG beta protein.  
 Clone: SPM529  
 Isotype: IgG1  
 Species Reactivity: Reacts with human. Others not known.  
 Positive Control: Placenta.  
 Specificity: This monoclonal antibody reacts with a protein of 22kDa, identified as HCG-beta, a sub-unit of HCG. It does not cross react with the alpha sub-unit.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0507-C.1	0.1 ml
RA0507-C.5	0.5 ml
RA0507-C1	1 ml

**Hepatocyte Specific Antigen (Hep Par 1)  
(Hepatocellular Marker); Clone OCH1E5 (Hep Par 1)  
(Concentrate)**

Species: Mouse  
 Immunogen: Extract of a formalin-fixed, rejected allograft of a human liver  
 Clone: OCH1E5; same as Hep Par 1  
 Isotype: IgG1  
 Species Reactivity: Human and Dog. Others not known.  
 Positive Control: Liver or Hepatocellular Carcinoma (HCC).  
 Specificity: Hepatocyte Specific Antigen, also called Hepatocyte Paraffin 1 or Hep Par 1, localizes to the mitochondria of hepatocytes. It is a sensitive marker for distinguishing hepatocellular carcinomas (HCC) from other metastatic carcinomas as well as cholangio-carcinomas.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0409-C.1	0.1 ml
RA0409-C.5	0.5 ml

**Hepatocyte Specific Antigen (Hepatocellular Marker); Clone HSA98 (Concentrate)**

Species: Mouse  
 Immunogen: HEP-3B human hepatocellular carcinoma cells  
 Clone: HSA98  
 Isotype: IgG2b, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Liver or Hepatocellular Carcinoma (HCC).  
 Specificity: Clone HSA98 binds to human hepatocytes and the majority of human hepatocellular carcinomas (HCC's). In frozen sections, it stains hepatic cells and may be used as a marker of the liver. Cell preparations of hepatocellular carcinoma biopsies or cell lines are found to bind HSA98 on the cell surface. This antibody stains liver hepatocytes in frozen human liver sections and is positive on the cell surface of human liver carcinomas.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0410-C.1	0.1 ml
RA0410-C.5	0.5 ml

**HER-2 / c-erbB-2 / neu / CD340; Clone HRB2/451 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human HER-2 protein  
 Clone: HRB2/451  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: SKBR-3 cells or breast cancers.  
 Specificity: This antibody is specific to HER-2/c-erbB-2 and shows minimal cross-reaction with other members of the family.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0108-C.1	0.1 ml
RA0108-C.5	0.5 ml

**HPV-16 (Human Papilloma Virus 16); Clone CAMVIR-1 (Concentrate)**

Species: Mouse  
 Immunogen: Human papilloma virus type 16, major capsid protein L1  
 Clone: CAMVIR-1  
 Isotype: IgG2a, kappa  
 Species Reactivity: Type 16 of human Papilloma Virus (HPV-16).  
 Positive Control: HPV-16 infected cells or cervical tissue.  
 Specificity: Reacts with a protein of 57kDa, identified as the L1 protein of human papilloma virus type 16 (HPV-16). The antibody reacts very strongly with formalin-fixed, paraffin-embedded tissues containing HPV-16 or -33; very weak reactions were occasionally observed with biopsy specimens or smears containing HPV-6 or HPV-11. It cross-reacts with HPV37.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0380-C.1	0.1 ml
RA0380-C.5	0.5 ml
RA0380-C1	1 ml

**HSP27 (Heat Shock Protein 27); Clone 24K/774 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human HSPB1 protein.  
 Clone: 24K/774  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Chimpanzee, Monkey, Sheep, Rat, Mouse, and Chicken. Others not known.  
 Positive Control: ~50% of breast carcinomas are positive for HSP27, especially those that are also positive for estrogen and/or progesterone receptor.  
 Specificity: This antibody recognizes a 24-27kDa estrogen-regulated protein, identified as heat shock protein 27 (HSP27).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0132-C.1	0.1 ml
RA0132-C.5	0.5 ml

**HSP27 (Heat Shock Protein 27); Clone G3.1 (Concentrate)**

Species: Mouse  
 Immunogen: Partially purified HSP27 (earlier called 24K) protein from breast cancer MCF-7 cells.  
 Clone: G3.1  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Chimpanzee, Monkey, Sheep, Rat, Mouse, and Chicken. Others not known.  
 Positive Control: ~50% of Breast Carcinomas are positive for HSP27, especially those that are also positive for estrogen and/or progesterone receptor.  
 Specificity: This antibody recognizes a 24-27kDa estrogen-regulated protein, identified as heat shock protein 27 (HSP27).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0131-C.1	0.1 ml
RA0131-C.5	0.5 ml

**HSP60 (Heat Shock Protein 60); Clone HLD4/780 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human HSPD1 protein  
 Clone: HLD4/780  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Mouse, Rat, Hamster, Sheep, Rabbit, Cow, Dog, Pig, Monkey, Chicken, Xenopus laevis, and Drosophila. Does not react with Bacteria, Helminths, and Spinach. Others not known.  
 Positive Control: HeLa or HepG2 cells. Breast carcinoma. Synovial biopsies from patients with juvenile chronic arthritis. Synovial lining layer is strongly positive for HSP60.  
 Specificity: Recognizes a 60kDa protein, identified as the heat shock protein 60 (HSP60).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0134-C.1	0.1 ml
RA0134-C.5	0.5 ml

**HSP60 (Heat Shock Protein 60); Clone LK1 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human HSP60 protein  
 Clone: LK1  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Mouse, Rat, Hamster, Sheep, Rabbit, Cow, Dog, Pig, Monkey, Chicken, *Xenopus laevis*, and *Drosophila*. Does not react with Bacteria, Helminths, and Spinach. Others not known.  
 Positive Control: HeLa or HepG2 cells. Breast carcinoma. Synovial biopsies from patients with juvenile chronic arthritis. Synovial lining layer is strongly positive for HSP60.  
 Specificity: This antibody recognizes a 60kDa protein, identified as the heat shock protein 60 (HSP60). Its epitope is localized between aa 383-447 of human HSP60. Clone LK1, unlike LK2, recognizes only the mammalian (not bacterial) HSP60 and is useful in distinguishing HSP60 from mammals and bacteria.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0133-C.1	0.1 ml
RA0133-C.5	0.5 ml

**IDH1 R132H; Clone H09 (Concentrate)**

Species: Mouse  
 Immunogen: Synthetic peptide, amino acid sequence CKPIIIIGHHAYGD  
 Clone: H09  
 Isotype: IgG2a  
 Species Reactivity: Human  
 Positive Control: Oligodendroglioma, diffuse astrocytoma  
 Specificity: Human IDH1 R132H point mutation  
 Status: RUO  
 Manufactured By: Dianova GmbH

<u>Catalog Number</u>	<u>Volume</u>
DIA-H09-M	0.1 ml
DIA-H09	0.5 ml

**IDH1-pan (wt & mutated); Clone W09 (Concentrate)**

Species: Rat  
 Immunogen: Peptide sequence 4-120 of human IDH1.  
 Clone: W09  
 Isotype: IgG2a  
 Species Reactivity: Human  
 Positive Control: Oligodendroglioma, diffuse astrocytoma.  
 Specificity: Human IDH1, wild type & point mutation.  
 Status: RUO  
 Manufactured By: Dianova GmbH

<u>Catalog Number</u>	<u>Volume</u>
DIA-W09	0.5 ml

**IgA (Immunoglobulin Alpha Heavy Chain) (B-Cell Marker); Clone GA01 (Concentrate)**

Species: Mouse  
 Immunogen: Purified human alpha heavy chain  
 Clone: GA01  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Daudi, 293T, Raji or hPBL cells. Tonsil or spleen.  
 Specificity: This monoclonal antibody is specific to the heavy chain of IgA and shows minimal cross-reaction with heavy chains of other immunoglobulins. It is reactive with all subclasses of Alpha heavy chain.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0137-C.1	0.1 ml
RA0137-C.5	0.5 ml

**IgA (Immunoglobulin Alpha Heavy Chain) (B-Cell Marker); Clone HISA3 & GA01 (Concentrate)**

Species: Mouse  
 Immunogen: Purified human IgA  
 Clone: HISA3 & GA01  
 Isotype: IgG1, kappa (HISA3 & GA01)  
 Species Reactivity: Human. Others not known.  
 Positive Control: Daudi, 293T, Raji or hPBL cells. Tonsil or spleen.  
 Specificity: This monoclonal antibody is specific to the heavy chain of IgA and shows minimal cross-reaction with heavy chains of other immunoglobulins. It is reactive with all subclasses of Alpha heavy chain.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0138-C.1	0.1 ml
RA0138-C.5	0.5 ml

**IgA (Immunoglobulin Alpha Heavy Chain) (B-Cell Marker); Clone HISA3 (Concentrate)**

Species: Mouse  
 Immunogen: Purified human IgA  
 Clone: HISA3  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Daudi, 293T, Raji or hPBL cells. Tonsil or spleen.  
 Specificity: This monoclonal antibody is specific to the heavy chain of IgA and shows minimal cross-reaction with heavy chains of other immunoglobulins. It is reactive with all subclasses of Alpha heavy chain.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0136-C.1	0.1 ml
RA0136-C.5	0.5 ml



**IgG (Immunoglobulin Gamma Heavy Chain) (B-Cell Marker); Clone B33/20 (Concentrate)**

Species: Mouse  
 Immunogen: Purified human Ig Gamma Chain  
 Clone: B33/20  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T, Raji or hPBL cells. Tonsil or Spleen.  
 Specificity: Recognizes a protein of 75kDa, identified as gamma heavy chain of human immunoglobulins. Its epitope maps in the CH2 domain of the Fc region of IgG. It reacts with all sub-classes of gamma chain of human immunoglobulins. It does not cross-react with alpha (IgA), mu (IgM), epsilon (IgE), or delta (IgD), heavy chains, T-cells, monocytes, granulocytes, or erythrocytes.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0142-C.1	0.1 ml
RA0142-C.5	0.5 ml

**IgG (Immunoglobulin Gamma Heavy Chain) (B-Cell Marker); Clone IG217 & IG266 (Concentrate)**

Species: Mouse  
 Immunogen: Purified human Ig Gamma Chain  
 Clone: IG217 & IG266  
 Isotype: IgG1, kappa (IG217); IgG2a, kappa (IG266)  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.  
 Specificity: This antibody is specific to heavy chain of IgG and shows minimal cross-reaction with heavy chains of other immunoglobulins. It is reactive with all subclasses of Gamma heavy chain (IgG1, IgG2a, IgG2b, IgG3).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0141-C.1	0.1 ml
RA0141-C.5	0.5 ml

**IgG (Immunoglobulin Gamma Heavy Chain) (B-Cell Marker); Clone IG217 (Concentrate)**

Species: Mouse  
 Immunogen: Purified human Ig Gamma Chain  
 Clone: IG217  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.  
 Specificity: Recognizes a protein of 75kDa, identified as the gamma heavy chain of human immunoglobulins. It reacts with all sub-classes of gamma chains of human immunoglobulins. It does not cross-react with alpha (IgA), mu (IgM), epsilon (IgE), or delta (IgD), heavy chains, T-cells, monocytes, granulocytes, or erythrocytes.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0139-C.1	0.1 ml
RA0139-C.5	0.5 ml

**IgG (Immunoglobulin Gamma Heavy Chain) (B-Cell Marker); Clone IG266 (Concentrate)**

Species: Mouse  
 Immunogen: Purified human Ig Gamma Chain  
 Clone: IG266  
 Isotype: IgG2a, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.  
 Specificity: Recognizes a protein of 75kDa, identified as the gamma heavy chain of human immunoglobulins. It reacts with all sub-classes of gamma chains of human immunoglobulins. It does not cross-react with alpha (IgA), mu (IgM), epsilon (IgE), or delta (IgD), heavy chains, T-cells, monocytes, granulocytes, or erythrocytes.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0140-C.1	0.1 ml
RA0140-C.5	0.5 ml

**IgM (Immunoglobulin Mu Heavy Chain) (B-Cell Marker); Clone DA4-4 (SA-DA4 or HB57) (Concentrate)**

Species: Mouse  
 Immunogen: Heavy chain of human IgM  
 Clone: DA4-4 (SA-DA4 or HB57)  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.  
 Specificity: Recognizes a protein of 75kDa, identified as mu heavy chain of human immunoglobulins. It does not cross-react with alpha (IgA), gamma (IgG), epsilon (IgE), or delta (IgD), heavy chains, T-cells, monocytes, granulocytes, or erythrocytes.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0144-C.1	0.1 ml
RA0144-C.5	0.5 ml

**IgM (Immunoglobulin Mu Heavy Chain) (B-Cell Marker); Clone ICO-30 (Concentrate)**

Species: Mouse  
 Immunogen: Heavy chain of human IgM  
 Clone: ICO-30  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T, Raji or hPBL cells. Tonsil or Spleen.  
 Specificity: Recognizes a protein of 75kDa, identified as mu heavy chain of human immunoglobulins. It does not cross-react with alpha (IgA), gamma (IgG), epsilon (IgE), or delta (IgD), heavy chains, T-cells, monocytes, granulocytes, or erythrocytes.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0143-C.1	0.1 ml
RA0143-C.5	0.5 ml



**IgM (Immunoglobulin Mu Heavy Chain) (B-Cell Marker); Clone IM260 & ICO-30 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant heavy chain of human IgM (IM260); Heavy chain of human IgM (ICO-30)  
 Clone: IM260 & ICO-30  
 Isotype: IgG1, kappa (IM260 & ICO-30)  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.  
 Specificity: Recognizes a protein of 75kDa, identified as the mu heavy chain of human immunoglobulins. It does not cross-react with alpha (IgA), gamma (IgG), epsilon (IgE), or delta (IgD) heavy chains, T-cells, monocytes, granulocytes, or erythrocytes.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0147-C.1	0.1 ml
RA0147-C.5	0.5 ml

**IgM (Immunoglobulin Mu Heavy Chain) (B-Cell Marker); Clone IM260 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant heavy chain of human IgM  
 Clone: IM260  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.  
 Specificity: Recognizes a protein of 75kDa, identified as mu heavy chain of human immunoglobulins. It does not cross-react with alpha (IgA), gamma (IgG), epsilon (IgE), or delta (IgD), heavy chains, T-cells, monocytes, granulocytes, or erythrocytes.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0145-C.1	0.1 ml
RA0145-C.5	0.5 ml

**IgM (Immunoglobulin Mu Heavy Chain) (B-Cell Marker); Clone IM373 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant heavy chain of human IgM  
 Clone: IM373  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.  
 Specificity: Recognizes a protein of 75kDa, identified as mu heavy chain of human immunoglobulins. It does not cross-react with alpha (IgA), gamma (IgG), epsilon (IgE), or delta (IgD), heavy chains, T-cells, monocytes, granulocytes, or erythrocytes.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0146-C.1	0.1 ml
RA0146-C.5	0.5 ml

**Insulin / IRDN (Beta Cell & Insulinoma Marker); Clone 2D11-H5 (INS05) (Concentrate)**

Species: Mouse  
 Immunogen: Purified pig insulin, conjugated to KLH  
 Clone: 2D11-H5 (INS05)  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Cow and Pig. Does not react with Mouse and Rat. Others not known.  
 Positive Control: MIA PaCa-2 cells or Pancreas.  
 Specificity: Recognizes a polypeptide which is identified as insulin, a 51-amino acid polypeptide composed of A and B chains connected through disulfide bonds.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0161-C.1	0.1 ml
RA0161-C.5	0.5 ml

**Insulin / IRDN (Beta Cell & Insulinoma Marker); Clone E2-E3 & 2D11-H5 (INS04 & INS05) (Concentrate)**

Species: Mouse  
 Immunogen: Purified pig insulin, conjugated to KLH  
 Clone: E2-E3 & 2D11-H5 (INS04 & INS05)  
 Isotype: IgG1, kappa (E2-E3); IgG1, kappa (2D11-H5)  
 Species Reactivity: Human, Cow Pig, Rabbit, and Rat. Others not known.  
 Positive Control: MIA PaCa-2 cells or Pancreas.  
 Specificity: Recognizes a polypeptide which is identified as insulin, a 51-amino acid polypeptide composed of A and B chains connected through disulfide bonds.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0163-C.1	0.1 ml
RA0163-C.5	0.5 ml

**Insulin / IRDN (Beta Cell & Insulinoma Marker); Clone E2-E3 (INS04) (Concentrate)**

Species: Mouse  
 Immunogen: Purified pig insulin, conjugated to KLH  
 Clone: E2-E3 (INS04)  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Cow Pig, Rabbit, and Rat. Others not known.  
 Positive Control: MIA PaCa-2 cells or Pancreas.  
 Specificity: Recognizes a polypeptide which is identified as insulin, a 51-amino acid polypeptide composed of A and B chains connected through disulfide bonds.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0162-C.1	0.1 ml
RA0162-C.5	0.5 ml

**Insulin / IRDN (Beta Cell & Insulinoma Marker); Clone IRDN/794 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant INS protein  
 Clone: IRDN/794  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Cow and Pig. Does not react with Mouse and Rat. Others not known.  
 Positive Control: MIA PaCa-2 cells or Pancreas.  
 Specificity: Recognizes a polypeptide which is identified as insulin, a 51-amino acid polypeptide composed of A and B chains connected through disulfide bonds.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0164-C.1	0.1 ml
RA0164-C.5	0.5 ml

**Insulin / IRDN (Beta Cell & Insulinoma Marker); Clone IRDN/805 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant INS protein  
 Clone: IRDN/805  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Cow, Pig, Rabbit and Rat. Others not known. Others not known.  
 Positive Control: MIA PaCa-2 cells or Pancreas.  
 Specificity: Recognizes a polypeptide which is identified as insulin, a 51-amino acid polypeptide composed of A and B chains connected through disulfide bonds.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0165-C.1	0.1 ml
RA0165-C.5	0.5 ml

**Involucrin (Squamous Cell Terminal Differentiation Marker); Clone IVRN/827 (Concentrate)**

Species: Mouse  
 Immunogen: Purified involucrin from human keratinocytes  
 Clone: IVRN/827  
 Isotype: IgG1, kappa  
 dysplasias of the larynx and cervix.  
 Species Reactivity: Human. Others not known.  
 Positive Control: MCF-7 cells. Localized to upper spinous and granular layers in normal skin.  
 Specificity: This antibody recognizes a protein of 66kDa-170kDa, identified as involucrin. In Western blotting of cultured human keratinocytes, this antibody reacts with a 120kDa protein. It stains the involucrin in a variety of sizes: 170kDa in MCF-7 cells, a doublet of ~115kDa and 150kDa in gorilla and owl monkey, 66kDa in dog, and a doublet of 105kDa in pig. Its epitope maps between codon 421-568 of human involucrin.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0167-C.1	0.1 ml
RA0167-C.5	0.5 ml

**Involucrin (Squamous Cell Terminal Differentiation Marker); Clone SY5 (Concentrate)**

Species: Mouse  
 Immunogen: Purified involucrin from human keratinocytes  
 Clone: SY5  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Gorilla, Owl monkey, Pig, and Dog. Does not react with Mouse. Others not known.  
 Positive Control: MCF-7 cells. Localized to upper spinous and granular layers in normal skin.  
 Specificity: This antibody recognizes a protein of 66kDa-170kDa, identified as involucrin. In Western blotting of cultured human keratinocytes, this antibody reacts with a 120kDa protein. It stains the involucrin in a variety of sizes: 170kDa in MCF-7 cells, a doublet of ~115kDa and 150kDa in gorilla and owl monkey, 66kDa in dog, and a doublet of 105kDa in pig. Its epitope maps between codon 421-568 of human involucrin.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0166-C.1	0.1 ml
RA0166-C.5	0.5 ml

**Kappa Light Chain (B-Cell marker); Clone HP6053 & L1C1 (Concentrate)**

Species: Mouse  
 Immunogen: Purified human Ig kappa chain (HP6053); Human B-Lymphoma Cells (L1C1)  
 Clone: HP6053 & L1C1  
 Isotype: IgG1, kappa (HP6053); IgG1, kappa (L1C1)  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.  
 Specificity: This monoclonal antibody is specific to the kappa light chain of immunoglobulins and shows no cross-reaction with the lambda light chain or any of the five heavy chains.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0152-C.1	0.1 ml
RA0152-C.5	0.5 ml

**Kappa Light Chain (B-Cell marker); Clone HP6053 (Concentrate)**

Species: Mouse  
 Immunogen: Purified human Ig kappa chain  
 Clone: HP6053  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.  
 Specificity: This monoclonal antibody is specific to the kappa light chain of immunoglobulins and shows no cross-reaction with the lambda light chain or any of the five heavy chains.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0151-C.1	0.1 ml
RA0151-C.5	0.5 ml

**Kappa Light Chain (B-Cell marker); Clone Kap-56 (Concentrate)**

Species: Mouse  
 Immunogen: Human lymphocytes stimulated  
 Clone: Kap-56  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.  
 Specificity: This monoclonal antibody is specific to the kappa light chain of immunoglobulins and shows no cross-reaction with the lambda light chain or any of the five heavy chains.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0154-C.1	0.1 ml
RA0154-C.5	0.5 ml

**Kappa Light Chain (B-Cell marker); Clone KLC264 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human Ig kappa chain  
 Clone: KLC264  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T, Raji or hPBL cells. Tonsil or Spleen.  
 Specificity: This monoclonal antibody is specific to the kappa light chain of immunoglobulins and shows no cross-reaction with the lambda light chain or any of the five heavy chains.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0149-C.1	0.1 ml
RA0149-C.5	0.5 ml

**Kappa Light Chain (B-Cell marker); Clone KLC709 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human Ig kappa chain  
 Clone: KLC709  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.  
 Specificity: This monoclonal antibody is specific to the kappa light chain of immunoglobulins and shows no cross-reaction with the lambda light chain or any of the five heavy chains.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0153-C.1	0.1 ml
RA0153-C.5	0.5 ml

**Kappa Light Chain (B-Cell marker); Clone L1C1 (Concentrate)**

Species: Mouse  
 Immunogen: Human B-Lymphoma Cells  
 Clone: L1C1  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Does not react with Rat. Others not known.  
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.  
 Specificity: This monoclonal antibody is specific to the kappa light chain of immunoglobulins and shows no cross-reaction with the lambda light chain or any of the five heavy chains.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0148-C.1	0.1 ml
RA0148-C.5	0.5 ml

**Kappa Light Chain (B-Cell marker); Clone TB28-2 (Concentrate)**

Species: Mouse  
 Immunogen: Human IgG-kappa myeloma protein  
 Clone: TB28-2  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T, Raji or hPBL cells. Tonsil or Spleen.  
 Specificity: This monoclonal antibody is specific to the kappa light chain of immunoglobulins and shows no cross-reaction with the lambda light chain or any of the five heavy chains.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0150-C.1	0.1 ml
RA0150-C.5	0.5 ml

**KBA.62 (Melanoma Associated Antigen); Clone KBA.62 (Concentrate)**

Species: Mouse  
 Immunogen: Human KAL cells derived from lymph node metastasis of malignant melanoma  
 Clone: KBA.62  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Melanoma  
 Specificity: KBA.62 is a novel anti-melanoma antibody. It reacts positively against melanocytic tumors but not against other tumors, thus demonstrating specificity and sensitivity. Moreover, it reacts positively against junctional nevus cells but not intradermal nevi, and against fetal melanocytes but not normal adult melanocytes.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0416-C.1	0.1 ml
RA0416-C.5	0.5 ml

**Ksp-Cadherin (Kidney-Specific Cadherin) / CDH16;  
Clone CDH16/1071 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human CDH16 protein  
 Clone: CDH16/1071  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Mouse, Rat, Rabbit and Dog. Others not known.  
 Positive Control: Normal kidney or renal cell carcinoma.  
 Specificity: This antibody recognizes a protein of 130kDa, identified as Ksp-cadherin.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0431-C.1	0.1 ml
RA0431-C.5	0.5 ml
RA0431-C1	1 ml

**Ksp-Cadherin (Kidney-Specific Cadherin) / CDH16;  
Clone CDH16/1532R (Concentrate)**

Species: Rabbit  
 Immunogen: Recombinant human full-length CDH16 protein  
 Clone: CDH16/1532R  
 Isotype: Rabbit / IgG, kappa  
 Species Reactivity: Human, Mouse and Rat. Others not known.  
 Positive Control: Normal kidney or renal cell carcinoma.  
 Specificity: This monoclonal Ab recognizes a protein of 130kDa, identified as Ksp-cadherin.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0470-C.1	0.1 ml
RA0470-C.5	0.5 ml
RA0470-C1	1 ml

**Ksp-Cadherin (Kidney-Specific Cadherin) / CDH16;  
Clone rCDH16/1071 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant full-length human CDH16 protein  
 Clone: rCDH16/1071  
 Isotype: Mouse / IgG1, kappa  
 Species Reactivity: Human, Mouse, Rabbit and Dog. Others not known.  
 Positive Control: Normal kidney or renal cell carcinoma.  
 Specificity: This MAb recognizes a protein of 130kDa, identified as Ksp-cadherin.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0468-C.1	0.1 ml
RA0468-C.5	0.5 ml
RA0468-C1	1 ml

**Ksp-Cadherin (Kidney-Specific Cadherin) / CDH16;  
Clone SPM594 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human CDH16 protein  
 Clone: SPM594  
 Isotype: Mouse / IgG1, kappa  
 Species Reactivity: Human, Mouse, Rat, Rabbit and Dog. Others not known.  
 Positive Control: Normal kidney or renal cell carcinoma.  
 Specificity: This antibody recognizes a protein of 130kDa, identified as Ksp-cadherin.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0469-C.1	0.1 ml
RA0469-C.5	0.5 ml
RA0469-C1	1 ml

**Lambda Light Chain (B-Cell Marker); Clone HP6054  
(Concentrate)**

Species: Mouse  
 Immunogen: Purified human IgG myeloma proteins coupled to polyaminostyrene microbeads.  
 Clone: HP6054  
 Isotype: IgG2a, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.  
 Specificity: This monoclonal antibody is specific to the lambda light chain of immunoglobulins and shows no cross-reaction with the kappa light chain or any of the five heavy chains.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0156-C.1	0.1 ml
RA0156-C.5	0.5 ml

**Lambda Light Chain (B-Cell Marker); Clone ICO-106  
(Concentrate)**

Species: Mouse  
 Immunogen: Purified human IgG  
 Clone: ICO-106  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.  
 Specificity: This monoclonal antibody is specific to the lambda light chain of immunoglobulins and shows no cross-reaction with the kappa light chain or any of the five heavy chains.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0155-C.1	0.1 ml
RA0155-C.5	0.5 ml

**Lambda Light Chain (B-Cell Marker); Clone LAM03 (Concentrate)**

Species: Mouse  
 Immunogen: Purified human lambda light chain  
 Clone: LAM03  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.  
 Specificity: This monoclonal antibody is specific to the lambda light chain of immunoglobulins and shows no cross-reaction with the kappa light chain or any of the five heavy chains.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0158-C.1	0.1 ml
RA0158-C.5	0.5 ml

**Lambda Light Chain (B-Cell Marker); Clone Lamb14 (Concentrate)**

Species: Mouse  
 Immunogen: Purified human lambda light chain  
 Clone: Lamb14  
 Isotype: IgG2a, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.  
 Specificity: This monoclonal antibody is specific to the lambda light chain of immunoglobulins and shows no cross-reaction with the kappa light chain or any of the five heavy chains.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0160-C.1	0.1 ml
RA0160-C.5	0.5 ml

**Lambda Light Chain (B-Cell Marker); Clone LcN-2 & ICO-106 (Concentrate)**

Species: Mouse  
 Immunogen: Purified human IgG (LcN-2 & ICO-106)  
 Clone: LcN-2 & ICO-106  
 Isotype: IgG2a, kappa (LcN-2); IgG1, kappa (ICO-106)  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.  
 Specificity: This monoclonal antibody is specific to the lambda light chain of immunoglobulins and shows no cross-reaction with the kappa light chain or any of the five heavy chains.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0159-C.1	0.1 ml
RA0159-C.5	0.5 ml

**Lambda Light Chain (B-Cell Marker); Clone LcN-2 (Concentrate)**

Species: Mouse  
 Immunogen: Purified human IgG  
 Clone: LcN-2  
 Isotype: IgG2a, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.  
 Specificity: This monoclonal antibody is specific to the lambda light chain of immunoglobulins and shows no cross-reaction with the kappa light chain or any of the five heavy chains.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0157-C.1	0.1 ml
RA0157-C.5	0.5 ml

**LH, alpha (Luteinizing Hormone, alpha); Clone LHα/756 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant full-length hLH alpha protein.  
 Clone: LHα/756  
 Isotype: IgG1, kappa  
 Species Reactivity: Reacts with human. Others not known.  
 Positive Control: Anterior Pituitary.  
 Specificity: This MAb reacts with a protein of ~13kDa, identified as alpha sub-unit of Luteinizing Hormone (LH).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0505-C.1	0.1 ml
RA0505-C.5	0.5 ml
RA0505-C1	1 ml

**Macrophage Marker (Calgranulin A/B); Clone CAG/426 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human Calgranulin protein  
 Clone: CAG/426  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Baboon, Monkey, Cow, Pig, Goat, Horse, Cat, Dog, Rabbit, Guinea pig, Rat, and Mouse. Others not known.  
 Positive Control: Tonsil, lymph node, or spleen.  
 Specificity: Recognizes a 12-14kDa subunit of Calgranulin A/B (also known as S100A8/A9 or MRP-8/14); this protein is expressed by granulocytes, monocytes, and tissue macrophages. This antibody reacts with neutrophils, monocytes, macrophages, and squamous mucosal epithelia, and has been shown to be an important marker for identifying macrophages in tissue sections.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0288-C.1	0.1 ml
RA0288-C.5	0.5 ml

**Macrophage Marker (Macrophage L1 Protein) (Calprotectin); Clone MAC387 (Concentrate)**

Species: Mouse

Immunogen: Affinity purified monocyte membrane preparation

Clone: MAC387

Isotype: IgG1, kappa

Species Reactivity: Human, Baboon, Monkey, Cow, Pig, Goat, Horse, Cat, Dog, Rabbit, Guinea pig, Rat, and Mouse. Others not known.

Positive Control: Tonsil, lymph node, or spleen.

Specificity: This antibody recognizes the L1 or Calprotectin molecule, an intra-cytoplasmic antigen comprised of 12-14kDa subunits expressed by granulocytes, monocytes, and tissue macrophages. This antibody reacts with neutrophils, monocytes, macrophages, and squamous mucosal epithelia and has been shown to be an important marker for identifying macrophages in tissue sections.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0287-C.1	0.1 ml
RA0287-C.5	0.5 ml

**Macrophage Marker (Myeloid-Related Proteins 8/14) (MRP-8/MRP-14); Clone MRP/840 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human MRP protein

Clone: MRP/840

Isotype: IgG1, kappa

Species Reactivity: Human, Baboon, Monkey, Cow, Pig, Goat, Horse, Cat, Dog, Rabbit, Guinea pig, Rat, and Mouse. Others not known.

Positive Control: Tonsil, lymph node, or spleen.

Specificity: Recognizes a 12-14kDa subunit of MRP-8/14 (also known as Calgranulin A/B or S100A8/A9); expressed by granulocytes, monocytes, and tissue macrophages. This antibody reacts with neutrophils, monocytes, macrophages, and squamous mucosal epithelia and has been shown to be an important marker for identifying macrophages in tissue sections.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0290-C.1	0.1 ml
RA0290-C.5	0.5 ml

**Macrophage Marker (S100A8/A9); Clone S100/722 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human S100 protein

Clone: S100/722

Isotype: IgG1, kappa

Species Reactivity: Human, Baboon, Monkey, Cow, Pig, Goat, Horse, Cat, Dog, Rabbit, Guinea pig, Rat, and Mouse. Others not known.

Positive Control: Tonsil, lymph node, or spleen.

Specificity: Recognizes a 12-14kDa subunit of S100A8/A9 (also known as Calgranulin A/B or MRP-8/14); expressed by granulocytes, monocytes, and tissue macrophages. This antibody reacts with neutrophils, monocytes, macrophages, and squamous mucosal epithelia, and has been shown to be an important marker for identifying macrophages in tissue sections.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0289-C.1	0.1 ml
RA0289-C.5	0.5 ml

**MAGE-1 (Target for Cancer Immunotherapy); Clone MA454 (Concentrate)**

Species: Mouse

Immunogen: Human MAGE-A1 full length recombinant protein

Clone: MA454

Isotype: IgG1, kappa

Species Reactivity: Human, Rat and Dog. Others not known.

Positive Control: Melanoma cell lines. Melanomas, gliomas, neuroblastoma, non-small cell lung cancer, breast, gastric, colorectal, ovarian, and renal cell carcinomas.

Specificity: Recognizes a protein of 42-46kDa, identified as MAGE-1. This antibody does not cross-react with MAGE-2, -3, -4, -6 -9, -10, -or -12 proteins.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0201-C.1	0.1 ml
RA0201-C.5	0.5 ml

**MAGE-1 (Target for Cancer Immunotherapy); Clone MZ2E/838 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human MAGEA1 protein

Clone: MZ2E/838

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: Melanoma cell lines. Melanomas, gliomas, neuroblastoma, non-small cell lung cancer, breast, gastric, colorectal, ovarian, and renal cell carcinomas.

Specificity: Recognizes a protein of 42-46kDa, identified as MAGE-1. This antibody does not cross-react with MAGE-2, -3, -4, -6 -9, -10, -or -12 proteins.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0202-C.1	0.1 ml
RA0202-C.5	0.5 ml

**Major Vault Protein (MVP); Clone 1014 (Concentrate)**

Species: Mouse  
 Immunogen: Proteins precipitated from human breast cancer MCF-7 cells  
 Clone: 1014  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not tested.  
 Positive Control: MCF-7/HeLa cells, breast tumors.  
 Specificity: Recognizes a protein of 104kDa-110kDa, characterized as major vault protein (MVP).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0349-C.1	0.1 ml
RA0349-C.5	0.5 ml

**Major Vault Protein (MVP); Clone 1032 (Concentrate)**

Species: Mouse  
 Immunogen: Proteins precipitated from human breast cancer MCF-7 cells  
 Clone: 1032  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not tested.  
 Positive Control: MCF-7/HeLa cells, breast tumors.  
 Specificity: Recognizes a protein of 104kDa-110kDa, characterized as major vault protein (MVP).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0350-C.1	0.1 ml
RA0350-C.5	0.5 ml

**MALT1 (MALT-Lymphoma Marker); Clone MT1/410 (Concentrate)**

Species: Mouse  
 Immunogen: Human MALT1 recombinant fragment (aa 701-808)  
 Clone: MT1/410  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Jurkat, Daudi, or HeLa cells. Tonsil or lymphoma.  
 Specificity: Highly expressed in peripheral blood mononuclear cells. Detected at lower levels in bone marrow, thymus and lymph node, and at very low levels in colon and lung.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0352-C.1	0.1 ml
RA0352-C.5	0.5 ml

**MALT1 (MALT-Lymphoma Marker); Clone SPM578 (Concentrate)**

Species: Mouse  
 Immunogen: Human MALT1 recombinant fragment (aa701-808).  
 Clone: SPM578  
 Isotype: IgG1, kappa  
 Species Reactivity: Reacts with human. Others not known.  
 Positive Control: Jurkat, Daudi, or HeLa cells. Lymphoma.  
 Specificity: Recognizes the 93kDa protein, MALT1 (aa701-808).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0509-C.1	0.1 ml
RA0509-C.5	0.5 ml
RA0509-C1	1 ml

**MART-1 / Melan-A / MLANA (Melanoma Marker); Clone A103 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant hMART-1 protein  
 Clone: A103  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Mouse, Rat and Dog. Others not tested.  
 Positive Control: SK-MEL-13 and SK-MEL-19 Melanoma cell lines, Melanomas.  
 Specificity: This monoclonal antibody recognizes a protein doublet of 20-22kDa, identified as MART-1 (Melanoma Antigen Recognized by T-cells 1) or Melan-A. This antibody labels melanomas and other tumors showing melanocytic differentiation. It is also a useful positive-marker for angiomylipomas. It does not stain tumor cells of epithelial, lymphoid, glial, or mesenchymal origin.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0114-C.1	0.1 ml
RA0114-C.5	0.5 ml
RA0114-C1	1 ml

**MART-1 / Melan-A / MLANA (Melanoma Marker); Clone A103, M2-7C10 & M2-9E3 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant hMART-1 protein (A103; M2-7C10; M2-9E3)  
 Clone: A103, M2-7C10 & M2-9E3  
 Isotype: IgG1 (A103); IgG2b (M2-7C10 & M2-9E3)  
 Species Reactivity: Human, Mouse, Rat and Dog. Others not tested.  
 Positive Control: SK-MEL-13 and SK-MEL-19 Melanoma cell lines, Melanomas.  
 Specificity: This monoclonal antibody recognizes a protein doublet of 20-22kDa, identified as MART-1 (Melanoma Antigen Recognized by T-cells 1) or Melan-A. This antibody labels melanomas and other tumors showing melanocytic differentiation. It is also a useful positive-marker for angiomylipomas. It does not stain tumor cells of epithelial, lymphoid, glial, or mesenchymal origin.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0115-C.1	0.1 ml
RA0115-C.5	0.5 ml



**MART-1 / Melan-A / MLANA (Melanoma Marker);  
Clone DT101 & BC199 (Concentrate)**

Species: Mouse

Immunogen: Recombinant hMART-1 protein (DT101 & BC199)

Clone: DT101 & BC199

Isotype: IgG2b, kappa (DT101 & BC199)

Species Reactivity: Human. Others not tested.

Positive Control: SK-MEL-13 and SK-MEL-19 Melanoma cell lines, Melanomas.

Specificity: This monoclonal antibody recognizes a protein doublet of 20-22kDa, identified as MART-1 (Melanoma Antigen Recognized by T-cells 1) or Melan-A. This antibody labels melanomas and other tumors showing melanocytic differentiation. It is also a useful positive-marker for angiomyolipomas. It does not stain tumor cells of epithelial, lymphoid, glial, or mesenchymal origin.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0117-C.1	0.1 ml
RA0117-C.5	0.5 ml

**MART-1 / Melan-A / MLANA (Melanoma Marker);  
Clone M2-7C10 & M2-9E3 (Concentrate)**

Species: Mouse

Immunogen: Recombinant hMART-1 protein (M2-7C10; M2-9E3)

Clone: M2-7C10 & M2-9E3

Isotype: IgG2b, kappa (M2-7C10 & M2-9E3)

Species Reactivity: Human, Mouse and Rat. Others not tested.

Positive Control: SK-MEL-13 and SK-MEL-19 Melanoma cell lines, Melanomas.

Specificity: This monoclonal antibody recognizes a protein doublet of 20-22kDa, identified as MART-1 (Melanoma Antigen Recognized by T-cells 1) or Melan-A. This antibody labels melanomas and other tumors showing melanocytic differentiation. It is also a useful positive-marker for angiomyolipomas. It does not stain tumor cells of epithelial, lymphoid, glial, or mesenchymal origin.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0116-C.1	0.1 ml
RA0116-C.5	0.5 ml

**MART-1 / Melan-A / MLANA (Melanoma Marker);  
Clone M2-7C10 (Concentrate)**

Species: Mouse

Immunogen: Recombinant hMART-1 protein

Clone: M2-7C10

Isotype: IgG2b, kappa

Species Reactivity: Human. Does not react with Mouse and Rat. Others not tested.

Positive Control: SK-MEL-13 and SK-MEL-19 Melanoma cell lines, Melanomas.

Specificity: This monoclonal antibody recognizes a protein doublet of 20-22kDa, identified as MART-1 (Melanoma Antigen Recognized by T-cells 1) or Melan-A. This antibody labels melanomas and other tumors showing melanocytic differentiation. It is also a useful positive-marker for angiomyolipomas. It does not stain tumor cells of epithelial, lymphoid, glial, or mesenchymal origin.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0112-C.1	0.1 ml
RA0112-C.5	0.5 ml

**MART-1 / Melan-A / MLANA (Melanoma Marker);  
Clone M2-9E3 (Concentrate)**

Species: Mouse

Immunogen: Recombinant hMART-1 protein

Clone: M2-9E3

Isotype: IgG2b, kappa

Species Reactivity: Human, Mouse and Rat. Others not tested.

Positive Control: SK-MEL-13 and SK-MEL-19 Melanoma cell lines, Melanomas.

Specificity: This monoclonal antibody recognizes a protein doublet of 20-22kDa, identified as MART-1 (Melanoma Antigen Recognized by T-cells 1) or Melan-A. This antibody labels melanomas and other tumors showing melanocytic differentiation. It is also a useful positive-marker for angiomyolipomas. It does not stain tumor cells of epithelial, lymphoid, glial, or mesenchymal origin.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0113-C.1	0.1 ml
RA0113-C.5	0.5 ml

**MART-1 / Melan-A / MLANA (Melanoma Marker); Clone MLANA/788 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human MLANA protein  
 Clone: MLANA/788  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Mouse, Rat and Dog. Others not tested.  
 Positive Control: SK-MEL-13 and SK-MEL-19 Melanoma cell lines, Melanomas.  
 Specificity: This monoclonal antibody recognizes a protein doublet of 20-22kDa, identified as MART-1 (Melanoma Antigen Recognized by T-cells 1) or Melan-A. This antibody labels melanomas and other tumors showing melanocytic differentiation. It is also a useful positive-marker for angiomyolipomas. It does not stain tumor cells of epithelial, lymphoid, glial, or mesenchymal origin.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0118-C.1	0.1 ml
RA0118-C.5	0.5 ml

**MCAM (Melanoma Cell Adhesion Molecule) / MUC18 / CD146; Clone MCAM/1101 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human MCAM protein  
 Clone: MCAM/1101  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: A-375, HUVEC, or HeLa Cells. Tonsil or Melanoma.  
 Specificity: This antibody recognizes a 130kDa protein known as the Melanoma Cell Adhesion Molecule.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0442-C.1	0.1 ml
RA0442-C.5	0.5 ml
RA0442-C1	1 ml

**MCAM (Melanoma Cell Adhesion Molecule) / MUC18 / CD146; Clone MUC18/1130 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human MCAM protein  
 Clone: MUC18/1130  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: A-375, HUVEC, or HeLa Cells. Tonsil or Melanoma.  
 Specificity: This antibody recognizes a 130kDa protein known as the Melanoma Cell Adhesion Molecule.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0444-C.1	0.1 ml
RA0444-C.5	0.5 ml
RA0444-C1	1 ml

**MCAM (Melanoma Cell Adhesion) / MUC18 / CD146; Clone C146/634 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human MCAM protein  
 Clone: C146/634  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: A-375, HUVEC, or HeLa Cells. Tonsil or Melanoma.  
 Specificity: This antibody recognizes a 130kDa protein known as the Melanoma Cell Adhesion Molecule.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0443-C.1	0.1 ml
RA0443-C.5	0.5 ml
RA0443-C1	1 ml

**Melanoma Marker (MART-1 & gp100); Clone DT101, BC199, & HMB45 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant hMART-1 protein (DT101 & BC199); Extract of pigmented melanoma metastases from lymph nodes (HMB45).  
 Clone: DT101, BC199, & HMB45  
 Isotype: IgG2b (DT101 & BC199); IgG1 (HMB45).  
 Species Reactivity: Human. Others not tested.  
 Positive Control: SK-MEL-13 and SK-MEL-19 Melanoma cell lines. Melanomas.  
 Specificity: This antibody cocktail recognizes two melanoma-specific proteins which include MART-1 and gp100.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0413-C.1	0.1 ml
RA0413-C.5	0.5 ml

**Melanoma Marker (MART-1, Tyrosinase, & gp100); Clone A103, T311, & HMB45 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant hMART-1 protein (A103); Recombinant tyrosinase protein (T311); Extract of pigmented melanoma metastases from lymph nodes (HMB45).  
 Clone: A103, T311, & HMB45  
 Isotype: IgG1 (A103); IgG2a (T311); IgG1 (HMB45).  
 Species Reactivity: Human. Others not tested.  
 Positive Control: SK-MEL-13 and SK-MEL-19 Melanoma cell lines. Melanomas.  
 Specificity: This antibody cocktail recognizes three melanoma-specific proteins which include MART-1, Tyrosinase, and gp100.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0412-C.1	0.1 ml
RA0412-C.5	0.5 ml

**Melanoma Marker (MART-1, Tyrosinase, & gp100); Clone DT101, BC199, T311, & HMB45 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant hMART-1 protein (DT101 & BC199); Extract of pigmented melanoma metastases from lymph nodes (HMB45); Recombinant tyrosinase protein (T311).  
 Clone: DT101, BC199, T311, & HMB45  
 Isotype: IgG2b (DT101 & BC199); IgG1 (HMB45); IgG2a (T311).  
 Species Reactivity: Human. Others not tested.  
 Positive Control: SK-MEL-13 and SK-MEL-19 Melanoma cell lines. Melanomas.  
 Specificity: This antibody cocktail recognizes three melanoma-specific proteins which include MART-1, Tyrosinase, and gp100.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0414-C.1	0.1 ml
RA0414-C.5	0.5 ml

**Melanoma Marker (MART-1, Tyrosinase, & gp100); Clone M2-7C10, M2-9E3, T311, & HMB45 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant hMART-1 protein (M2-7C10; M2-9E3); Recombinant tyrosinase protein (T311); Extract of pigmented melanoma metastases from lymph nodes (HMB45).  
 Clone: M2-7C10, M2-9E3, T311, & HMB45  
 Isotype: IgG2b (M2-7C10 & M2-9E3); IgG2a (T311); IgG1 (HMB45).  
 Species Reactivity: Human. Others not tested.  
 Positive Control: SK-MEL-13 and SK-MEL-19 Melanoma cell lines. Melanomas.  
 Specificity: This antibody cocktail recognizes three melanoma-specific proteins which include MART-1, Tyrosinase, and gp100.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0411-C.1	0.1 ml
RA0411-C.5	0.5 ml

**Microphthalmia Transcription Factor (MITF); Clone D5 & MITF/915 (Concentrate)**

Species: Mouse  
 Immunogen: N-terminal fragment of human MITF protein (D5); Recombinant human MITF protein (MITF/915)  
 Clone: D5 & MITF/915  
 Isotype: IgG1, kappa (D5); IgG1, kappa (MITF/915)  
 Species Reactivity: Human. Does not react with Mouse and Rat. Others not tested.  
 Positive Control: Jurkat, A-431, HeLa or 501 Mel human melanoma cells or Melanoma.  
 Specificity: Anti-MITF recognizes a nuclear protein, which is expressed in the majority of primary and metastatic epithelioid malignant melanomas as well as in normal melanocytes, benign nevi, and dysplastic nevi.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0210-C.1	0.1 ml
RA0210-C.5	0.5 ml

**Microphthalmia Transcription Factor (MITF); Clone D5 (Concentrate)**

Species: Mouse  
 Immunogen: N-terminal fragment of human MITF protein  
 Clone: D5  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Does not react with Mouse and Rat. Others not tested.  
 Positive Control: Jurkat, A-431, HeLa or 501 Mel human melanoma cells or Melanoma.  
 Specificity: Anti-MITF recognizes a nuclear protein, which is expressed in the majority of primary and metastatic epithelioid malignant melanomas as well as in normal melanocytes, benign nevi, and dysplastic nevi.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0207-C.1	0.1 ml
RA0207-C.5	0.5 ml

**Microphthalmia Transcription Factor (MITF); Clone MITF/915 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human MITF protein  
 Clone: MITF/915  
 Isotype: IgG1, kappa  
 Species Reactivity: Human and Dog. Does not react with Mouse and Rat. Others not tested.  
 Positive Control: Jurkat, A-431, HeLa or 501 Mel human melanoma cells or Melanoma.  
 Specificity: Anti-MITF recognizes a nuclear protein, which is expressed in the majority of primary and metastatic epithelioid malignant melanomas as well as in normal melanocytes, benign nevi, and dysplastic nevi.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0208-C.1	0.1 ml
RA0208-C.5	0.5 ml

**Mitochondria (Marker for Human Cells); Clone AE-1 (Concentrate)**

Species: Mouse  
 Immunogen: Semi-purified mitochondrial preparation  
 Clone: AE-1  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Does not react with Mouse and Rat. Others not known.  
 Positive Control: HeLa or HepG2 cells. Hepatic carcinoma.  
 Specificity: This antibody recognizes a 60kDa antigen associated with the mitochondria in human cells.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0396-C.1	0.1 ml
RA0396-C.5	0.5 ml

**Mitochondria (Marker for Human Cells); Clone MTC02 (Concentrate)**

Species: Mouse  
 Immunogen: Semi-purified mitochondrial preparation  
 Clone: MTC02  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Does not react with Mouse and Rat. Others not known.  
 Positive Control: HeLa or HepG2 cells. Hepatic carcinoma.  
 Specificity: This antibody recognizes a 60kDa antigen associated with the mitochondria in human cells.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0393-C.1	0.1 ml
RA0393-C.5	0.5 ml

**Mitochondria (Marker for Human Cells, Granular RCC's & Salivary Tumors); Clone 113-1 (Concentrate)**

Species: Mouse  
 Immunogen: Semi-purified mitochondrial preparation  
 Clone: 113-1  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Does not react with Mouse and Rat. Others not known.  
 Positive Control: HeLa or HepG2 cells. Hepatic carcinoma.  
 Specificity: This antibody recognizes a 60kDa antigen associated with the mitochondria in human cells. It can be used to stain mitochondria in cell or tissue preparations and can be used as a mitochondrial marker in subcellular fractions.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0392-C.1	0.1 ml
RA0392-C.5	0.5 ml

**Mitochondrial Marker; Clone MTC719 (Concentrate)**

Species: Mouse  
 Immunogen: Mitochondrial fraction of HeLa cells  
 Clone: MTC719  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Shows broad species reactivity. Does not react with insects or bacteria.  
 Positive Control: HeLa or HepG2 cells. Hepatic carcinomas.  
 Specificity: This antibody recognizes a 60kDa antigen associated with the mitochondria in cells.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0394-C.1	0.1 ml
RA0394-C.5	0.5 ml

**Mitochondrial Marker; Clone MTC754 (Concentrate)**

Species: Mouse  
 Immunogen: Mitochondrial fraction of HeLa cells  
 Clone: MTC754  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Shows broad species reactivity including insects and bacteria.  
 Positive Control: HeLa or HepG2 cells. Hepatic carcinomas.  
 Specificity: This antibody recognizes a 60kDa antigen associated with the mitochondria in cells.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0395-C.1	0.1 ml
RA0395-C.5	0.5 ml

**Moesin; Clone MSN491 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human moesin protein  
 Clone: MSN491  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: HT-29, CH3LC, or HUVEC cells. Uterus, placenta, tonsil (both B- and T-lymphocytes), skeletal muscle, thyroid, or kidney.  
 Specificity: This antibody recognizes the 78kDa moesin protein.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0211-C.1	0.1 ml
RA0211-C.5	0.5 ml

**MUC1 / EMA / CD227 (Epithelial Marker); Clone 139H2 (Concentrate)**

Species: Mouse  
 Immunogen: Human milk-fat globule membranes  
 Clone: 139H2  
 Isotype: IgG1, kappa  
 Species Reactivity: Human and Mouse. Others not known.  
 Positive Control: MCF-7 or MDA-231 cells. Breast or colon carcinoma.  
 Specificity: 139H2 reacts with MUC1, a large transmembrane glycoprotein expressed on the ductal surface of normal glandular epithelia. The dominant epitope of 139H2 has not yet been determined. In immunohistochemical assays, it superbly stains routine formalin/paraffin carcinoma tissues. An antibody to MUC1 is useful as a pan-epithelial marker for detecting early metastatic loci of carcinoma in bone marrow or liver.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0217-C.1	0.1 ml
RA0217-C.5	0.5 ml

**MUC1 / EMA / CD227 (Epithelial Marker); Clone E29 (Concentrate)**

Species: Mouse

Immunogen: Delipidated extract of human milk fat globule membranes

Clone: E29

Isotype: IgG2a, kappa

Species Reactivity: Human. Reacts moderately with Pig and Dog. Others not known.

Positive Control: MCF-7 or MDA-231 cells. Breast or colon carcinoma.

Specificity: In Western blotting, this antibody recognizes proteins in a MW range of 265-400kDa, identified as different glycoforms of MUC1. This antibody reacts with the DTRP epitope within the tandem repeats. In immunohistochemical assays, it superbly stains routine formalin/paraffin carcinoma tissues. An antibody to MUC1 is useful as a pan-epithelial marker for detecting early metastatic loci of carcinoma in bone marrow or liver.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0214-C.1	0.1 ml
RA0214-C.5	0.5 ml

**MUC1 / EMA / CD227 (Epithelial Marker); Clone GP1.4 & E29 (Concentrate)**

Species: Mouse

Immunogen: Human milk fat globule membranes (GP1.4); Delipidated extract of human milk fat globule membranes (E29).

Clone: GP1.4 & E29

Isotype: IgG1, kappa (GP1.4); IgG2a, kappa (E29)

Species Reactivity: Human. Reacts moderately with Pig and Dog. Others not known.

Positive Control: Breast or colon carcinoma.

Specificity: In Western blotting, this antibody recognizes proteins in a MW range of 265-400kDa, identified as different glycoforms of MUC1. This antibody reacts with the DTRP epitope within the tandem repeats. In immunohistochemical assays, it superbly stains routine formalin/paraffin carcinoma tissues. An antibody to MUC1 is useful as a pan-epithelial marker for detecting early metastatic loci of carcinoma in bone marrow or liver.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0215-C.1	0.1 ml
RA0215-C.5	0.5 ml

**MUC1 / EMA / CD227 (Epithelial Marker); Clone GP1.4 (Concentrate)**

Species: Mouse

Immunogen: Human milk fat globule membranes

Clone: GP1.4

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: MCF-7 or MDA-231 cells. Breast or colon carcinoma.

Specificity: In Western blotting, this antibody recognizes proteins in a MW range of 265-400kDa, identified as different glycoforms of MUC1. This antibody reacts with the DTRP epitope within the tandem repeats. In immunohistochemical assays, it superbly stains routine formalin/paraffin carcinoma tissues. An antibody to MUC1 is useful as a pan-epithelial marker for detecting early metastatic loci of carcinoma in bone marrow or liver.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0212-C.1	0.1 ml
RA0212-C.5	0.5 ml

**MUC1 / EMA / CD227 (Epithelial Marker); Clone HMPV (Concentrate)**

Species: Mouse

Immunogen: Human breast cancer cell line ZR-75 cells

Clone: HMPV

Isotype: IgM, kappa

Species Reactivity: Human. Others not known.

Positive Control: MCF-7 or MDA-231 cells. Breast or colon carcinoma.

Specificity: HMPV recognizes full-length MUC1 in a glycosylation-independent manner and can bind to the fully glycosylated protein. The dominant epitope of HMPV is APDTR in the VNTR region. It reacts with the core peptide of the MUC1 protein. This antibody has been shown to react with both normal and malignant epithelia of various tissues including breast and colon.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0218-C.1	0.1 ml
RA0218-C.5	0.5 ml

**MUC1 / EMA / CD227 (Epithelial Marker); Clone PEM/845 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human MUC1 protein

Clone: PEM/845

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: MCF-7 or MDA-231 cells. Breast or colon carcinoma.

Specificity: In Western blotting, this antibody recognizes proteins in a MW range of 265-400kDa, identified as different glycoforms of MUC1. This antibody reacts with the DTRP epitope within the tandem repeats. In immunohistochemical assays, it superbly stains routine formalin/paraffin carcinoma tissues. An antibody to MUC1 is useful as a pan-epithelial marker for detecting early metastatic loci of carcinoma in bone marrow or liver.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0216-C.1	0.1 ml
RA0216-C.5	0.5 ml

**MUC2 (Mucin 2); Clone CCP58 (Concentrate)**

Species: Mouse

Immunogen: A synthetic peptide of 29 amino acids, KYPTTTPISTTTMTPTPTGTQTPTTT from MUC2 protein, coupled to KLH.

Clone: CCP58

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: LS174T cells or small intestine.

Specificity: Recognizes a single glycoprotein of 520kDa, identified as mucin 2 (MUC2). This antibody shows no cross-reaction with human milk fat globule membranes, MUC1, or MUC3.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0219-C.1	0.1 ml
RA0219-C.5	0.5 ml

**MUC2 (Mucin 2); Clone MLP/842 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human MUC2 protein

Clone: MLP/842

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: LS174T cells or small intestine.

Specificity: Recognizes a single glycoprotein of 520kDa, identified as mucin 2 (MUC2). This antibody shows no cross-reaction with human milk fat globule membranes, MUC1, or MUC3.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0220-C.1	0.1 ml
RA0220-C.5	0.5 ml

**MUC5AC (Mucin 5AC / Gastric Mucin); Clone 45M1 (Concentrate)**

Species: Mouse

Immunogen: M1 mucin preparation from the fluid of an ovarian mucinous cyst belonging to an O Le(a-b) patient.

Clone: 45M1

Isotype: IgG1, kappa

Positive Control: Stomach

Cellular Localization: Cytoplasmic

Specificity: This antibody recognizes the peptide core of gastric mucin M1 (>1,000kDa) (recently identified as Mucin 5AC). Its epitope is destroyed by beta-mercaptoethanol and proteases, but not by periodate treatment. This antibody to gastric mucin M1 reacts with the gastric epithelium of normal human gastrointestinal tract as well as with the precancerous and cancerous colon, but it does not react with normal adult colon. It also reacts with fetal colonic mucosa. Resurgence of gastric mucin reactivity during colonic carcinogenesis is due to re-expression of the peptide core of gastric (or fetal colonic) mucins.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0221-C.1	0.1 ml
RA0221-C.5	0.5 ml

**MUC5AC (Mucin 5AC / Gastric Mucin); Clone CLH2 (Concentrate)**

Species: Mouse

Immunogen: A synthetic peptide of human MUC5AC tandem repeat.

Clone: CLH2

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: Stomach

Specificity: Together with a panel of antibodies, anti-MUC5AC may be useful for differential identification of primary mucinous ovarian tumors from colon adenocarcinoma metastatic to the ovary. MUC5AC antibodies may also be useful for identification of intestinal metaplasia as well as in the identification of pancreatic carcinoma and pre-cancerous changes vs. normal pancreas.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0222-C.1	0.1 ml
RA0222-C.5	0.5 ml

**MUC5AC (Mucin 5AC / Gastric Mucin); Clone MUC5AC/917 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human MUC5AC protein  
 Clone: MUC5AC/917  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Stomach  
 Specificity: Together with a panel of antibodies, anti-MUC5AC may be useful for differential identification of primary mucinous ovarian tumors from colon adenocarcinoma metastatic to the ovary. MUC5AC antibodies may also be useful for identification of intestinal metaplasia as well as in the identification of pancreatic carcinoma and pre-cancerous changes vs. normal pancreas.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0223-C.1	0.1 ml
RA0223-C.5	0.5 ml

**MUC6 (Mucin 6 / Gastric Mucin); Clone CLH5 (Concentrate)**

Species: Mouse  
 Immunogen: A synthetic peptide of the Gastric Mucin 6 tandem repeat sequence  
 Clone: CLH5  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Stomach  
 Specificity: Mucin 6 expression is highest in the stomach and gall bladder, with lower expression in the terminal ileum and right colon. In gastric cancer, Mucin 6 has an altered expression. In normal stomach, Mucin 6 is associated with Lewis type 2 antigens; Mucin 6 is also expressed in gastric metaplasia, duodenum, and pancreas. Mucin 6 is a secretory mucin, located in the deeper mucosal folds of human gall bladder, and its expression is altered with increasing degrees of inflammation.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0224-C.1	0.1 ml
RA0224-C.5	0.5 ml

**MUC6 (Mucin 6 / Gastric Mucin); Clone MUC6/916 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human MUC6 protein  
 Clone: MUC6/916  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Stomach  
 Specificity: Mucin 6 expression is highest in the stomach and gall bladder, with lower expression in the terminal ileum and right colon. In gastric cancer, Mucin 6 has an altered expression. In normal stomach, Mucin 6 is associated with Lewis type 2 antigens; Mucin 6 is also expressed in gastric metaplasia, duodenum, and pancreas. Mucin 6 is a secretory mucin, located in the deeper mucosal folds of human gall bladder, and its expression is altered with increasing degrees of inflammation.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0225-C.1	0.1 ml
RA0225-C.5	0.5 ml

**Myeloid Cell Marker (Macrophage / Granulocyte Marker); Clone BM-1 (Concentrate)**

Species: Mouse  
 Immunogen: Human peripheral blood mononuclear cells  
 Clone: BM-1  
 Isotype: IgG1  
 Species Reactivity: Human. Others not known.  
 Positive Control: HL60 cells. Bone marrow, lymph node or tonsil.  
 Specificity: Recognizes a 183kDa protein with DNA-binding characteristics, which is identified as a myeloid specific antigen. Clone BM-1 reacts with myeloid precursor cells and granulocytes in bone marrow. Its antigen appears to be restricted to M2 and M3 acute myelogenous leukemia (AML) subtypes.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0400-C.1	0.1 ml
RA0400-C.5	0.5 ml

**Myeloid-Associated Differentiation Marker (MYADM); Clone BM-2 (Concentrate)**

Species: Mouse  
 Immunogen: Nuclei from pokeweed mitogen stimulated human peripheral blood lymphocytes  
 Clone: BM-2  
 Isotype: IgG1  
 Species Reactivity: Human and Macaque Monkey. Others not known.  
 Positive Control: HL60 cells. Tonsil or lymph node.  
 Specificity: Recognizes a myeloid associated differentiation antigen in the cytoplasm of mature granulocytes. It shows no reactivity with any other cell type in human tissues.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0366-C.1	0.1 ml
RA0366-C.5	0.5 ml

**Myeloid-Associated Differentiation Marker (MYADM); Clone MYADM/971 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human MYADM protein  
 Clone: MYADM/971  
 Isotype: IgG1  
 Species Reactivity: Human and Macaque Monkey. Others not known.  
 Positive Control: HL60 cells. Tonsil or lymph node.  
 Specificity: This antibody recognizes a myeloid associated differentiation antigen in the cytoplasm of mature granulocytes. It shows no reactivity with any other cell type in human tissues.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0455-C.1	0.1 ml
RA0455-C.5	0.5 ml
RA0455-C1	1 ml



**Myeloid-Associated Differentiation Marker (MYADM); Clone MYADM/972 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human MYADM protein  
 Clone: MYADM/972  
 Isotype: IgG1  
 Species Reactivity: Human and Macaque Monkey. Others not known.  
 Positive Control: HL60 cells. Tonsil or lymph node.  
 Specificity: This antibody recognizes a myeloid associated differentiation antigen in the cytoplasm of mature granulocytes. It shows no reactivity with any other cell type in human tissues.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0456-C.1	0.1 ml
RA0456-C.5	0.5 ml
RA0456-C1	1 ml

**MyoD1 (Rhabdomyosarcoma Marker); Clone 5.8A & MYD712 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant mouse MyoD1 protein (5.8A); Recombinant human MyoD1 protein (MYD712)  
 Clone: 5.8A & MYD712  
 Isotype: IgG1, kappa (5.8A); IgG1, kappa (MYD712)  
 Species Reactivity: Human, Mouse, Rat, and Chicken. Others not known.  
 Positive Control: Rhabdomyosarcoma  
 Specificity: Recognizes a phosphor-protein of 45kDa, identified as MyoD1. It does not cross react with myogenin, Myf5, or Myf6. This antibody to MyoD1 labels the nuclei of myoblasts in developing muscle tissues.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0233-C.1	0.1 ml
RA0233-C.5	0.5 ml

**MyoD1 (Rhabdomyosarcoma Marker); Clone 5.8A (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant mouse MyoD1 protein  
 Clone: 5.8A  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Mouse, Rat, and Chicken. Others not known.  
 Positive Control: Rhabdomyosarcoma  
 Specificity: Recognizes a phosphor-protein of 45kDa, identified as MyoD1. The epitope of this antibody maps between amino acids 180-189 in the C-terminal region of the mouse MyoD1 protein. It does not cross react with myogenin, Myf5, or Myf6. This antibody to MyoD1 labels the nuclei of myoblasts in developing muscle tissues.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0231-C.1	0.1 ml
RA0231-C.5	0.5 ml

**MyoD1 (Rhabdomyosarcoma Marker); Clone MYD712 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human MyoD1 protein  
 Clone: MYD712  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Rhabdomyosarcoma  
 Specificity: Recognizes a phosphor-protein of 45kDa, identified as MyoD1. It does not cross react with myogenin, Myf5, or Myf6. This antibody to MyoD1 labels the nuclei of myoblasts in developing muscle tissues.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0232-C.1	0.1 ml
RA0232-C.5	0.5 ml

**Myogenin (Skeletal Muscle Marker); Clone F5D (Concentrate)**

Species: Mouse  
 Immunogen: Rat myogenin peptide (aa 73-94) followed by rat myogenin recombinant fragment (aa 30-224) (Epitope aa 138-158)  
 Clone: F5D  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Mouse, Rat, Dog, Cat, and Pig. Others not known.  
 Positive Control: Rh-30 cells. Skeletal muscle or rhabdomyosarcoma.  
 Specificity: Anti-myogenin labels the nuclei of myoblasts in developing muscle tissue, and is expressed in tumor cell nuclei of rhabdomyosarcoma and some leiomyosarcomas. Positive nuclear staining may occur in Wilms' tumor.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0235-C.1	0.1 ml
RA0235-C.5	0.5 ml

**Myogenin (Skeletal Muscle Marker); Clone MGN185 & F5D (Concentrate)**

Species: Mouse  
 Immunogen: Human myogenin recombinant protein (MGN185); Rat myogenin recombinant fragment containing amino acid 30-224 (F5D)  
 Clone: MGN185 & F5D  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Mouse, Rat, Cat, and Pig. Others not known.  
 Positive Control: Rh-30 cells. Skeletal muscle or rhabdomyosarcoma.  
 Specificity: Anti-myogenin labels the nuclei of myoblasts in developing muscle tissue, and is expressed in tumor cell nuclei of rhabdomyosarcoma and some leiomyosarcomas. Positive nuclear staining may occur in Wilms' tumor.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0236-C.1	0.1 ml
RA0236-C.5	0.5 ml

**Myogenin (Skeletal Muscle Marker); Clone MGN185 (Concentrate)**

Species: Mouse  
 Immunogen: Human myogenin recombinant protein  
 Clone: MGN185  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Mouse, Rat, Cat and Pig. Others not known.  
 Positive Control: Rh-30 cells. Skeletal muscle or rhabdomyosarcoma.  
 Specificity: Anti-myogenin labels the nuclei of myoblasts in developing muscle tissue, and is expressed in tumor cell nuclei of rhabdomyosarcoma and some leiomyosarcomas. Positive nuclear staining may occur in Wilms' tumor.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0234-C.1	0.1 ml
RA0234-C.5	0.5 ml

**Napsin A (Lung Adenocarcinoma Marker); Clones NAPSA/1238 & NAPSA/1239 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human Napsin-A protein fragment (aa 189-299). Exact sequence is proprietary.  
 Clones: NAPSA/1238 & NAPSA/1239  
 Isotype: IgG1, Kappa  
 Species Reactivity: Human. Others not tested.  
 Positive Control: Lung adenocarcinoma.  
 Specificity: This antibody is specific for a pepsin-like aspartic proteinase identified as Napsin A.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0479-C.1	0.1 ml
RA0479-C.5	0.5 ml
RA0479-C1	1 ml

**N-Cadherin / Cadherin-2 / CD325 (NCAD); Clone 13A9 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human N-cadherin cytoplasmic domain (exact sequence is proprietary)  
 Clone: 13A9  
 Isotype: IgG1, kappa  
 Species Reactivity: Human and Mouse. Others not known.  
 Positive Control: HeLa or HUVEC cells. Heart, Pancreas or Cerebral Cortex.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0463-C.1	0.1 ml
RA0463-C.5	0.5 ml
RA0463-C1	1 ml

**N-Cadherin / Cadherin-2 / CD325 (NCAD); Clone 8C11 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human N-cadherin cytoplasmic domain (exact sequence is proprietary)  
 Clone: 8C11  
 Isotype: Mouse / IgG1, kappa  
 Species Reactivity: Human and Mouse. Others not known.  
 Positive Control: HeLa or HUVEC cells. Heart, Pancreas or Cerebral Cortex  
 Specificity: Recognizes a protein of ~140kDa, identified as N-Cadherin (NCAD), also known as CD325.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0464-C.1	0.1 ml
RA0464-C.5	0.5 ml
RA0464-C1	1 ml

**N-Cadherin / Cadherin-2 / CD325 (NCAD); Clone CDH2/1573 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human N-cadherin cytoplasmic domain (exact sequence is proprietary)  
 Clone: CDH2/1573  
 Isotype: Mouse / IgG1, kappa  
 Species Reactivity: Human and Mouse. Others not known.  
 Positive Control: HeLa or HUVEC cells. Heart, Pancreas or Cerebral Cortex  
 Specificity: Recognizes a protein of ~140kDa, identified as N-Cadherin (NCAD), also known as CD325.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0465-C.1	0.1 ml
RA0465-C.5	0.5 ml
RA0465-C1	1 ml

**Neurofilament (H & L) (Neuronal Marker); Clone NF421 & NFL/736 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human neurofilament heavy subunit (NF421) & light subunit (NFL/736).  
 Clone: NF421 & NFL/736  
 Isotype: IgG1 NF421; IgG1 NFL/736  
 Species Reactivity: Human, Mouse, Rat, Chicken, and Pig. Others not known.  
 Positive Control: Brain and Neuroblastoma.  
 Specificity: This antibody reacts with a 200kDa and 68kDa protein, identified as heavy and light subunits of neurofilaments (NF-H & NF-L).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0408-C.1	0.1 ml
RA0408-C.5	0.5 ml

**Neurofilament (H & L) (Neuronal Marker); Clone RT97 & NR-4 (Concentrate)**

Species: Mouse

Immunogen: Triton-X 100 insoluble protein fraction of rat brain (RT-97); Pig neurofilament light sub-unit (NR-4).

Clone: RT97 & NR-4

Isotype: IgG1 (RT97); IgG1 (NR-4)

Species Reactivity: Human, Mouse, Rat, Chicken, and Pig.  
Others not known.

Positive Control: Brain and Neuroblastoma.

Specificity: This antibody reacts with a 200kDa and 68kDa protein, identified as heavy and light subunits of neurofilaments (NF-H & NF-L).

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0407-C.1	0.1 ml
RA0407-C.5	0.5 ml

**Neurofilament (NF-H) (Neuronal Marker); Clone NF421 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human neurofilament protein

Clone: NF421

Isotype: IgG1

Species Reactivity: Human, Mouse, Rat, Pig and Chicken.  
Others not known.

Positive Control: Brain, Neuroblastoma.

Specificity: This antibody reacts with a 200kDa protein, identified as the heavy subunit of neurofilaments (NF-H). Anti-neurofilament stains a number of neural, neuroendocrine, and endocrine tumors. Neuromas, ganglioneuromas, gangliogliomas, ganglioneuroblastomas, and neuroblastomas stain positively for anti-neurofilament. Neurofilaments are also present in paragangliomas as well as adrenal and extra-adrenal pheochromocytomas. Carcinoids, neuroendocrine carcinomas of the skin, and oat cell carcinomas of the lung also express neurofilament.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0243-C.1	0.1 ml
RA0243-C.5	0.5 ml

**Neurofilament (NF-H) (Neuronal Marker); Clone RT97 (Concentrate)**

Species: Mouse

Immunogen: Triton-X 100 insoluble protein fraction of rat brain

Clone: RT97

Isotype: IgG1

Species Reactivity: Human, Mouse, Rat, Pig and Chicken.

Others not known.

Positive Control: Brain, Neuroblastoma.

Specificity: This antibody reacts with a 200kDa protein, identified as the heavy subunit of neurofilaments (NF-H). Anti-neurofilament stains a number of neural, neuroendocrine, and endocrine tumors. Neuromas, ganglioneuromas, gangliogliomas, ganglioneuroblastomas, and neuroblastomas stain positively for anti-neurofilament. Neurofilaments are also present in paragangliomas as well as adrenal and extra-adrenal pheochromocytomas. Carcinoids, neuroendocrine carcinomas of the skin, and oat cell carcinomas of the lung also express neurofilament.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0244-C.1	0.1 ml
RA0244-C.5	0.5 ml

**Neurofilament (NF-L) (Neuronal Marker); Clone NFL/736 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human NF-L protein

Clone: NFL/736

Isotype: IgG1

Species Reactivity: Human, Rat, Pig, Cow and Chicken. Others not known.

Positive Control: Brain, Neuroblastoma.

Specificity: This antibody reacts with a 68kDa protein, identified as the light subunit of neurofilaments (NF-L). Anti-neurofilament stains a number of neural, neuroendocrine, and endocrine tumors. Neuromas, ganglioneuromas, gangliogliomas, ganglioneuroblastomas, and neuroblastomas stain positively for anti-neurofilament. Neurofilaments are also present in paragangliomas as well as adrenal and extra-adrenal pheochromocytomas. Carcinoids, neuroendocrine carcinomas of the skin, and oat cell carcinomas of the lung also express neurofilament.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0246-C.1	0.1 ml
RA0246-C.5	0.5 ml

**Neurofilament (NF-L) (Neuronal Marker); Clone NR-4 (Concentrate)**

Species: Mouse

Immunogen: Pig neurofilament, light sub-unit (NF-L)

Clone: NR-4

Isotype: IgG1

Species Reactivity: Human, Rat, Pig, Cow and Chicken. Others not known.

Positive Control: Brain, Neuroblastoma.

Specificity: This antibody reacts with a 68kDa protein, identified as the light subunit of neurofilaments (NF-L). Anti-neurofilament stains a number of neural, neuroendocrine, and endocrine tumors. Neuromas, ganglioneuromas, gangliogliomas, ganglioneuroblastomas, and neuroblastomas stain positively for anti-neurofilament. Neurofilaments are also present in paragangliomas as well as adrenal and extra-adrenal pheochromocytomas. Carcinoids, neuroendocrine carcinomas of the skin, and oat cell carcinomas of the lung also express neurofilament.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0245-C.1	0.1 ml
RA0245-C.5	0.5 ml

**NGF-Receptor (p75) / CD271 (Soft Tissue Tumor Marker); Clone NGFR5 & NTR/912 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human p75 NGFR protein

Clone: NGFR5 & NTR/912

Isotype: IgG1, kappa (NGFR5); IgG1, kappa (NTR/912)

Species Reactivity: Human and Non-human Primates. Does not react with Mouse and Rat. Others not known.

Positive Control: Neuronal axons, Schwann cells, and perineural cells of peripheral nerves, or tumors of nerve sheath differentiation, e.g. Schwannoma, Neurofibroma. Soma and axons of sensory neurons, and ganglionic satellite cells. Melanomas.

Specificity: Recognizes a glycoprotein of 75kDa, identified as low affinity Nerve Growth Factor (NGF) Receptor (p75, NGFR) or Neurotrophin Receptor (p75, NTR). Reportedly, anti-NGFR is a reliable marker for desmoplastic and neurotropic melanomas. Anti-NGFR stains the myoepithelial cells of breast ducts and intra-lobular fibroblasts of breast ducts.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0249-C.1	0.1 ml
RA0249-C.5	0.5 ml

**NGF-Receptor (p75) / CD271 (Soft Tissue Tumor Marker); Clone NGFR5 (Concentrate)**

Species: Mouse

Immunogen: NGFR from A875 melanoma cells

Clone: NGFR5

Isotype: IgG1, kappa

Species Reactivity: Human, Monkey, Baboon, Cat, Rabbit and Ferret. Does not react with Mouse and Rat. Others not known.

Positive Control: Neuronal axons, Schwann cells, and perineural cells of peripheral nerves, or tumors of nerve sheath differentiation, e.g. Schwannoma, Neurofibroma. Soma and axons of sensory neurons, and ganglionic satellite cells. Melanomas.

Specificity: Recognizes a glycoprotein of 75kDa, identified as the low affinity Nerve Growth Factor (NGF) Receptor (p75, NGFR) or Neurotrophin Receptor (p75, NTR). Its epitope resides within aa 1-160 of the extracellular domain of NGFR/NTR.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0247-C.1	0.1 ml
RA0247-C.5	0.5 ml

**NGF-Receptor (p75) / CD271 (Soft Tissue Tumor Marker); Clone NTR/912 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human p75 NGFR protein

Clone: NTR/912

Isotype: IgG1, kappa

Species Reactivity: Human and Non-human Primates. Does not react with Mouse and Rat. Others not known.

Positive Control: Neuronal axons, Schwann cells, and perineural cells of peripheral nerves, or tumors of nerve sheath differentiation, e.g. Schwannoma, Neurofibroma. Soma and axons of sensory neurons, and ganglionic satellite cells. Melanomas.

Specificity: Recognizes a glycoprotein of 75kDa, identified as low affinity Nerve Growth Factor (NGF) Receptor (p75, NGFR) or Neurotrophin Receptor (p75, NTR). Reportedly, anti-NGFR is a reliable marker for desmoplastic and neurotropic melanomas. Anti-NGFR stains the myoepithelial cells of breast ducts and intra-lobular fibroblasts of breast ducts.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0248-C.1	0.1 ml
RA0248-C.5	0.5 ml

**NKX2.2 (Neuroendocrine & Ewing Sarcoma Marker); Clone NX2/294 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human NKX2.2 protein  
 Clone: NX2/294  
 Isotype: IgG2b, kappa  
 Species Reactivity: Human, Mouse, Rat and Chicken. Others not known.  
 Positive Control: Pancreas or Ewing sarcoma.  
 Specificity: The NKX2.2 protein was identified as a target of EWS-FLI-1, the fusion protein specific to Ewing sarcoma, and was shown to be differentially upregulated in Ewing sarcoma on the basis of array-based gene expression analysis. It acts as a valuable marker for Ewing sarcoma, with a sensitivity of 93% and a specificity of 89%, and aids in the differential diagnosis of small round cell tumors.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0250-C.1	0.1 ml
RA0250-C.5	0.5 ml

**NSE gamma (Neuron Specific Enolase, gamma) (Neuroendocrine Marker); Clone ENO2/1462 (Concentrate)**

Species: Mouse  
 Immunogen: A synthetic peptide corresponding to aa416-433 of human NSE gamma (exact sequence is proprietary)  
 Clone: ENO2/1462  
 Isotype: Mouse / IgG2b  
 Species Reactivity: Human. Others not known.  
 Positive Control: HepG2, SH-SY-5Y, HeLa or Y79 cells. Pancreas, Cerebellum or Pheochromocytoma.  
 Specificity: Recognizes a protein of about 50kDa, which is identified as gamma-enolase.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0462-C.1	0.1 ml
RA0462-C.5	0.5 ml
RA0462-C1	1 ml

**Nuclear Membrane Marker; Clone AE-5 (Concentrate)**

Species: Mouse  
 Immunogen: Nuclei of myeloid leukemia biopsy cells  
 Clone: AE-5  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Tonsil.  
 Specificity: This antibody recognizes an antigen associated with the nuclear membrane expressed in human cells. It can be used to stain the nuclear membrane in cell or tissue preparations and can be used as a marker of the nuclear membrane in subcellular fractions.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0402-C.1	0.1 ml
RA0402-C.5	0.5 ml

**Nuclear Membrane Marker; Clone NM97 (Concentrate)**

Species: Mouse  
 Immunogen: Nuclei of myeloid leukemia biopsy cells  
 Clone: NM97  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Human cell lines or tonsil.  
 Specificity: Clone NM97 recognizes an antigen associated with the nuclear membrane expressed in human cells. It can be used to stain the nuclear membrane in cell or tissue preparations and can be used as a marker of the nuclear membrane in subcellular fractions.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0401-C.1	0.1 ml
RA0401-C.5	0.5 ml

**Nuclear Mitotic Apparatus Protein (NuMA); Clone A73-B/D12 (Concentrate)**

Species: Mouse  
 Immunogen: Colon carcinoma 174T cells  
 Clone: A73-B/D12  
 Isotype: IgM, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Exponentially growing any cultured human cells. Tonsil or lymph node.  
 Specificity: Recognizes a phosphorylated protein of 228kDa, identified as nuclear mitotic apparatus protein (NuMA). Its epitope is resistant to phosphatases.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0251-C.1	0.1 ml
RA0251-C.5	0.5 ml

**Nucleoli Marker; Clone NM95 (Concentrate)**

Species: Mouse  
 Immunogen: Nuclei of myeloid leukemia biopsy cells  
 Clone: NM95  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Tonsil  
 Specificity: Clone NM95 recognizes an antigen associated with the nucleoli in human cells. It can be used to stain the nucleoli in cell or tissue preparations and can be used as a marker of the nucleoli in subcellular fractions.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0404-C.1	0.1 ml
RA0404-C.5	0.5 ml

**Nucleolin (Marker of Nucleoli); Clone NCL/902 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human nucleolin protein

Clone: NCL/902

Isotype: IgG1, kappa

Species Reactivity: Human. Does not react with Mouse, Rat and Cow. Others not known.

Positive Control: HeLa cells, breast cancer.

Specificity: Recognizes a protein of ~76kDa, which is identified as Nucleolin (NCL). This antibody can be used to stain the nucleoli in cell or tissue preparations and can be used as a marker of the nucleoli in subcellular fractions. It produces a speckled pattern in the nuclei of normal and malignant cells and may be used to stain the nucleoli of cells in fixed or frozen tissue sections. It can be used with paraformaldehyde-fixed frozen tissue or cell preparations and formalin-fixed, paraffin-embedded tissue sections.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0242-C.1	0.1 ml
RA0242-C.5	0.5 ml

**Ornithine Decarboxylase-1 (ODC-1); Clone ODC1/485 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human ODC-1 protein

Clone: ODC1/485

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: Epithelial cells in normal placenta or prostate carcinoma.

Specificity: Recognizes a 53kDa protein, identified as Ornithine Decarboxylase (ODC-1).

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0252-C.1	0.1 ml
RA0252-C.5	0.5 ml

**p21WAF1 (Tumor Suppressor Protein); Clone CIP1/823 & DCS-60.2 (Concentrate)**

Species: Mouse

Immunogen: Recombinant full-length human CDKN1A protein (CIP1/823); Human recombinant p21 protein (DCS-60.2)

Clone: CIP1/823 &amp; DCS-60.2

Isotype: Mouse / IgG2a, kappa

Species Reactivity: Human, does not react with mouse and rat. Others not known.

Positive Control: HeLa Cells. Skin, colon, or breast carcinoma.

Specificity: This MAb recognizes a 21kDa protein, identified as the p21WAF1 tumor suppressor protein. This MAb is highly specific to p21 and shows no cross-reaction with other closely related mitotic inhibitors.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0473-C.1	0.1 ml
RA0473-C.5	0.5 ml
RA0473-C1	1 ml

**p21WAF1 (Tumor Suppressor Protein); Clone CIP1/823 (Concentrate)**

Species: Mouse

Immunogen: Human recombinant CDKN1A protein

Clone: CIP1/823

Isotype: IgG2a, kappa

Species Reactivity: Human. Does not react with Mouse and Rat. Others not known.

Positive Control: HeLa Cells. Skin, colon, or breast carcinoma.

Specificity: This antibody recognizes a 21kDa protein, identified as the p21WAF1 tumor suppressor protein. It is highly specific to p21 and shows no cross-reaction with other closely related mitotic inhibitors.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0076-C.1	0.1 ml
RA0076-C.5	0.5 ml

**p21WAF1 (Tumor Suppressor Protein); Clone DCS-60.2 (Concentrate)**

Species: Mouse

Immunogen: Human recombinant p21 protein

Clone: DCS-60.2

Isotype: IgG2a, kappa

Species Reactivity: Human. Does not react with Mouse and Rat. Others not known.

Positive Control: HeLa Cells. Skin, colon, or breast carcinoma.

Specificity: This monoclonal antibody recognizes a 21kDa protein, identified as the p21WAF1 tumor suppressor protein. This antibody is highly specific to p21 and shows no cross-reaction with other closely related mitotic inhibitors.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0075-C.1	0.1 ml
RA0075-C.5	0.5 ml

**p21WAF1 (Tumor Suppressor Protein); Clone HJ21 (Concentrate)**

Species: Mouse

Immunogen: Human recombinant p21 protein

Clone: HJ21

Isotype: Mouse / IgG1, kappa

Species Reactivity: Human, Monkey, Chimpanzee, Mouse and Rat. Others not known.

Positive Control: HeLa Cells. Skin, colon, or breast carcinoma.

Specificity: This MAb recognizes a 21kDa protein, identified as the p21WAF1 tumor suppressor protein. It is highly specific to p21 and shows no cross-reaction with other closely related mitotic inhibitors.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0472-C.1	0.1 ml
RA0472-C.5	0.5 ml
RA0472-C1	1 ml

**p21WAF1 (Tumor Suppressor Protein); Clone SPM306 (Concentrate)**

Species: Mouse  
 Immunogen: Human recombinant p21 protein  
 Clone: SPM306  
 Isotype: IgG2a, kappa  
 Species Reactivity: Human, does not react with mouse and rat. Others not known.  
 Positive Control: HeLa Cells. Skin, colon, or breast carcinoma.  
 Specificity: This MAb recognizes a 21kDa protein, identified as the p21WAF1 tumor suppressor protein. This MAb is highly specific to p21 and shows no cross-reaction with other closely related mitotic inhibitors.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0471-C.1	0.1 ml
RA0471-C.5	0.5 ml
RA0471-C1	1 ml

**p21WAF1 (Tumor Suppressor Protein); Clone WA-1 (HJ21) (Concentrate)**

Species: Mouse  
 Immunogen: Human recombinant p21 protein  
 Clone: WA-1 (HJ21)  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Monkey, Mouse and Rat. Others not known.  
 Positive Control: HeLa Cells. Skin, colon, or breast carcinoma.  
 Specificity: This antibody recognizes a 21kDa protein, identified as the p21WAF1 tumor suppressor protein. It is highly specific to p21 and shows no cross-reaction with other closely related mitotic inhibitors.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0074-C.1	0.1 ml
RA0074-C.5	0.5 ml

**p27Kip1 (Mitotic Inhibitor/Suppressor Protein); Clone DCS-72.F6 & KIP1/769 (Concentrate)**

Species: Mouse  
 Immunogen: Mouse recombinant p27 protein (DCS-72.F6); Recombinant human CDKN1B protein (KIP1/769)  
 Clone: DCS-72.F6 + KIP1/769  
 Isotype: Mouse / IgG's  
 Species Reactivity: Human, monkey, mouse and rat. Others not known.  
 Positive Control: ZR75, T47D, SK-BR-3, MDA-MB-231, HeLa or MCF7 cells. Tonsil, Breast, Cervical or Colon Carcinoma.  
 Specificity: Recognizes a 27kDa protein, identified as the p27Kip1, a cell cycle regulatory mitotic inhibitor. It is highly specific and shows no cross-reaction with other related mitotic inhibitors.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0475-C.1	0.1 ml
RA0475-C.5	0.5 ml
RA0475-C1	1 ml

**p27Kip1 (Mitotic Inhibitor/Suppressor Protein); Clone DCS-72.F6 (Concentrate)**

Species: Mouse  
 Immunogen: Mouse recombinant p27 protein  
 Clone: DCS-72.F6  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Mouse, Rat and Monkey. Others not known  
 Positive Control: ZR75, T47D, SK-BR-3, MDA-MB-231, MCF7 cells. Tonsil, Breast or Colon Carcinoma.  
 Specificity: Recognizes a 27kDa protein, identified as p27Kip1, a cell cycle regulatory mitotic inhibitor. Its epitope spans between amino acids 83-204 of p27. It is highly specific and shows no cross-reaction with other related mitotic inhibitors.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0079-C.1	0.1 ml
RA0079-C.5	0.5 ml

**p27Kip1 (Mitotic Inhibitor/Suppressor Protein); Clone KIP1/769 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human CDKN1B protein  
 Clone: KIP1/769  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Mouse, Rat and Monkey. Others not known.  
 Positive Control: ZR75, T47D, SK-BR-3, MDA-MB-231, MCF7 cells. Tonsil, breast or colon carcinoma.  
 Specificity: This antibody recognizes a 27kDa protein, identified as p27Kip1, a cell cycle regulatory mitotic inhibitor. It is highly specific and shows no cross-reaction with other related mitotic inhibitors.

<u>Catalog Number</u>	<u>Volume</u>
RA0078-C.1	0.1 ml
RA0078-C.5	0.5 ml

**p27Kip1 (Mitotic Inhibitor/Suppressor Protein); Clone SPM348 (Concentrate)**

Species: Mouse  
 Immunogen: Purified GST-p27 fusion protein of mouse origin  
 Clone: SPM348  
 Isotype: Mouse / IgG1, kappa  
 Species Reactivity: Human, mouse, rat and monkey. Others not known  
 Positive Control: ZR75, T47D, SK-BR-3, MDA-MB-231, MCF7 cells. Tonsil, Breast or Colon Ca  
 Specificity: This MAb recognizes a 27kDa protein, identified as the p27Kip1, a cell cycle regulatory mitotic inhibitor. It is highly specific and shows no cross-reaction with other related mitotic inhibitors.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0474-C.1	0.1 ml
RA0474-C.5	0.5 ml
RA0474-C1	1 ml



**p27Kip1 (Mitotic Inhibitor/Suppressor Protein); Clone SX53G8 (Concentrate)**

Species: Mouse

Immunogen: Purified GST-p27 fusion protein of human origin

Clone: SX53G8

Isotype: IgG1, kappa

Species Reactivity: Human, Mouse, Rat and Monkey. Others not known.

Positive Control: ZR75, T47D, SK-BR-3, MDA-MB-231, MCF7 cells. Tonsil, breast or colon carcinoma.

Specificity: This antibody recognizes a 27kDa protein, identified as p27Kip1, a cell cycle regulatory mitotic inhibitor. It is highly specific and shows no cross-reaction with other related mitotic inhibitors.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0077-C.1	0.1 ml
RA0077-C.5	0.5 ml

**p53 Tumor Suppressor Protein; Clone BP53-12 & DO-7 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human wild-type p53 protein (BP53-12); Recombinant human wild type p53 protein expressed in E. coli (DO-7).

Clone: BP53-12 & DO-7

Isotype: IgG2a (BP53-12); IgG2b, kappa (DO-7)

Species Reactivity: Human, Monkey, and Cow. Others not known.

Positive Control: MDA-MB-231 Cells. Breast or colon carcinoma.

Specificity: Recognizes a 53kDa protein, which is identified as p53 suppressor gene product. It reacts with the mutant as well as the wild type form of p53 under denaturing and non-denaturing conditions. Its epitope maps within the N-terminus (aa 20-25) of p53.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0321-C.1	0.1 ml
RA0321-C.5	0.5 ml

**p53 Tumor Suppressor Protein; Clone BP53-12 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human wild type p53 protein

Clone: BP53-12

Isotype: IgG2a

Species Reactivity: Human. Does not react with Mouse and Rat. Others not known.

Positive Control: MDA-MB-231 Cells. Breast or colon carcinoma.

Specificity: Recognizes a 53kDa protein, which is identified as p53 suppressor gene product. It reacts with the mutant as well as the wild type form of p53 under denaturing and non-denaturing conditions. Its epitope maps within the N-terminus (aa 20-25) of p53 oncoprotein.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0318-C.1	0.1 ml
RA0318-C.5	0.5 ml

**p53 Tumor Suppressor Protein; Clone DO-7 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human wild type p53 protein expressed in E. coli.

Clone: DO-7

Isotype: IgG2b, kappa

Species Reactivity: Human, Monkey, and Cow. Others not known.

Positive Control: MDA-MB-231 Cells. Breast or colon carcinoma.

Specificity: Recognizes a 53kDa protein, which is identified as p53 suppressor gene product. It reacts with the mutant as well as the wild type form of p53. Its epitope maps within the N-terminus (aa 37-45) of p53.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0319-C.1	0.1 ml
RA0319-C.5	0.5 ml

**p53 Tumor Suppressor Protein; Clone TRP/816 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human TP53 protein

Clone: TRP/816

Isotype: IgG2a

Species Reactivity: Human. Others not known.

Positive Control: MDA-MB-231 Cells. Breast or colon carcinoma.

Specificity: Recognizes a 53kDa protein, which is identified as p53 suppressor gene product. It reacts with the mutant as well as the wild type form of p53 under denaturing and non-denaturing conditions.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0322-C.1	0.1 ml
RA0322-C.5	0.5 ml

**p53 Tumor Suppressor Protein; Clone TRP/817 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human TP53 protein

Clone: TRP/817

Isotype: IgG2b, kappa

Species Reactivity: Human. Others not known.

Positive Control: MDA-MB-231 Cells. Breast or colon carcinoma.

Specificity: Recognizes a 53kDa protein, which is identified as p53 suppressor gene product. It reacts with the mutant as well as the wild type form of p53 protein.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0323-C.1	0.1 ml
RA0323-C.5	0.5 ml

**p57Kip2 (Mitotic Inhibitor/Suppressor Protein);  
Clone 57P06 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human p57Kip2 protein  
 Clone: 57P06  
 Isotype: IgG2b, kappa  
 Species Reactivity: Human and Mouse. Others-not known  
 Positive Control: LS174T, Raji, HT29, SK-BR3 cells. Colon or Prostate carcinomas.  
 Specificity: Recognizes a protein of 57kDa, identified as p57Kip2. It shows no cross-reaction with p27Kip1.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0478-C.1	0.1 ml
RA0478-C.5	0.5 ml
RA0478-C1	1 ml

**p57Kip2 (Mitotic Inhibitor/Suppressor Protein);  
Clone KIP2/880 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human p57Kip2 protein  
 Clone: KIP2/880  
 Isotype: IgG2b, kappa  
 Species Reactivity: Human and Mouse. Others not known.  
 Positive Control: LS174T, Raji, HT29, SK-BR3 cells. Colon carcinomas.  
 Specificity: Recognizes a protein of 57kDa, identified as p57Kip2. It shows no cross-reaction with p27Kip1.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0081-C.1	0.1 ml
RA0081-C.5	0.5 ml

**p57Kip2 (Mitotic Inhibitor/Suppressor Protein);  
Clone KP10 & KIP2/880 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human p57Kip2 protein  
 Clone: KP10 + KIP2/880  
 Isotype: IgG's  
 Species Reactivity: Human and Mouse. Others: not known  
 Positive Control: LS174T, Raji, HT29, SK-BR3 cells. Colon or Prostate carcinomas.  
 Specificity: Recognizes a protein of 57kDa, identified as p57Kip2. It shows no cross-reaction with p27Kip1.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0477-C.1	0.1 ml
RA0477-C.5	0.5 ml
RA0477-C1	1 ml

**p57Kip2 (Mitotic Inhibitor/Suppressor Protein);  
Clone KP10 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human p57Kip2 protein  
 Clone: KP10  
 Isotype: IgG2b, kappa  
 Species Reactivity: Human and Mouse. Others not known.  
 Positive Control: LS174T, Raji, HT29, SK-BR3 cells. Colon carcinomas.  
 Specificity: Recognizes a protein of 57kDa, identified as p57Kip2. It shows no cross-reaction with p27Kip1.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0080-C.1	0.1 ml
RA0080-C.5	0.5 ml

**p57Kip2 (Mitotic Inhibitor/Suppressor Protein);  
Clone SPM308 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human p57Kip2 protein  
 Clone: SPM308  
 Isotype: IgG2b, kappa  
 Species Reactivity: Human and mouse. Others not known  
 Positive Control: LS174T, Raji, HT29, SK-BR3 cells. Colon or Prostate carcinomas.  
 Specificity: Recognizes a protein of 57kDa, identified as p57Kip2. It shows no cross-reaction with p27Kip1.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0476-C.1	0.1 ml
RA0476-C.5	0.5 ml
RA0476-C1	1 ml

**Parathyroid Hormone (PTH); Clone 3H9  
(Concentrate)**

Species: Mouse  
 Immunogen: Synthetic peptide corresponding to amino acids 1 to 34 of mature PTH conjugated to a carrier  
 Clone: 3H9  
 Isotype: IgG2b, kappa  
 Species Reactivity: Human. Predicted to react with Mouse, Rat, Rabbit, Cow, Dog, Pig, Deer, and Orangutan.  
 Positive Control: Human parathyroid gland carcinoma.  
 Specificity: The epitope of this antibody maps in between amino acids 1-34.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0272-C.1	0.1 ml
RA0272-C.5	0.5 ml

**Parathyroid Hormone (PTH); Clone PTH1/911 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human PTH polypeptide  
 Clone: PTH1/911  
 Isotype: IgG2b, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Human parathyroid gland carcinoma.  
 Specificity: The epitope of this antibody maps in between amino acids 1-34.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0273-C.1	0.1 ml
RA0273-C.5	0.5 ml

**P-Cadherin (CDH3); Clone 12H6 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human full-length P-cadherin fusion protein  
 Clone: 12H6  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: A431 or PC-3 cells. Pancreas, Placenta or Prostate  
 Specificity: Recognizes a protein of 116kDa, identified as P-Cadherin-1 (CDH3).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0466-C.1	0.1 ml
RA0466-C.5	0.5 ml
RA0466-C1	1 ml

**P-Cadherin (CDH3); Clone 6A9 (Concentrate)**

Species: Mouse  
 Immunogen: A431 trypsinized membranes  
 Clone: 6A9  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: A431 or PC-3 cells. Pancreas, Placenta or Prostate  
 Specificity: Recognizes a protein of 116kDa, identified as P-Cadherin-1 (CDH3).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0467-C.1	0.1 ml
RA0467-C.5	0.5 ml
RA0467-C1	1 ml

**PCNA (Proliferating Cell Nuclear Antigen) (G1- & S-phase Marker); Clone PC10 (Concentrate)**

Species: Mouse  
 Immunogen: Rat PCNA/Protein A fusion protein  
 Clone: PC10  
 Isotype: IgG2a, kappa  
 Species Reactivity: Human, Monkey, Pig, Mouse, Rat, Chicken, Zebrafish, Drosophila melanogaster and Yeast (S. pombe & S. cerevisiae). Others not known.  
 Positive Control: Tonsil or reactive lymph node.  
 Specificity: Recognizes a non-histone protein of 36kDa, which is identified as proliferating cell nuclear antigen (PCNA). It is also known as cyclin or polymerase delta auxiliary protein.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0253-C.1	0.1 ml
RA0253-C.5	0.5 ml

**PDCD1 / PD1 / CD279 (Programmed Cell Death 1); Clone NAT105 (Concentrate)**

Species: Mouse  
 Immunogen: TY cells (human T/NK cell Leukemia)  
 Clone: NAT105  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: TY cells or Tonsil.  
 Specificity: Anti-PDCD1 is a marker of angioimmunoblastic lymphoma and suggests a unique cell of origin for this neoplasm.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0254-C.1	0.1 ml
RA0254-C.5	0.5 ml

**PDCD1 / PD1 / CD279 (Programmed Cell Death 1); Clone PDCD1/922 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human PDCD1 protein  
 Clone: PDCD1/922  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: TY cells or Tonsil.  
 Specificity: Anti-PDCD-1 is a marker of angioimmunoblastic lymphoma and suggests a unique cell of origin for this neoplasm.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0255-C.1	0.1 ml
RA0255-C.5	0.5 ml

**PD-L1 / PDCD1LG1 / CD274 / B7-H1; Clone PDL1/2746 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant fragment of human CD274 protein (around aa 39-191). Exact sequence is proprietary.  
 Clone: PDL1/2746  
 Isotype: IgG2b, kappa  
 Species Reactivity: Human and Mouse. Others not tested.  
 Positive Control: Heart, Placenta, Spleen or Tonsil. RAW, HEK293 or HepG2 cell lysates. Jurkat cells.  
 Specificity: This antibody reacts with PD-L1, also known as B7-H1 or CD274.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0501-C.1	0.1 ml
RA0501-C.5	0.5 ml
RA0501-C1	1 ml

**PGP9.5 / Uchl1 (pan-Neuronal Marker); Clone 31A3 (Concentrate)**

Species: Mouse  
 Immunogen: Native Uchl1 (PGP9.5) protein from brain  
 Clone: 31A3  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Mouse, Rat, Cow, and Pig. Others not known.  
 Positive Control: Cerebellum  
 Specificity: This antibody reacts with a protein of 20-30kDa, identified as PGP9.5, also known as ubiquitin carboxyl-terminal hydrolase-1 (Uchl1).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0333-C.1	0.1 ml
RA0333-C.5	0.5 ml

**PGP9.5 / Uchl1 (pan-Neuronal Marker); Clone PARK5/775 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human UCHL1 protein  
 Clone: PARK5/775  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Shows a broad species reactivity.  
 Positive Control: Cerebellum  
 Specificity: This antibody reacts with a protein of 20-30kDa, identified as PGP9.5, also known as ubiquitin carboxyl-terminal hydrolase-1 (Uchl1).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0334-C.1	0.1 ml
RA0334-C.5	0.5 ml

**Phosphotyrosine (P-Tyr); Clone PTR/793 (Concentrate)**

Species: Mouse  
 Immunogen: Phosphotyrosine conjugated to BSA  
 Clone: PTR/793  
 Isotype: IgG2b  
 Species Reactivity: All species.  
 Positive Control: MCF-7, MDA-231, T47-D cells or breast carcinoma.  
 Specificity: This antibody shows no cross-reaction with other phosphoamino acids and is superb for multiple applications including staining of formalin-fixed, paraffin-embedded tissues.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0420-C.1	0.1 ml
RA0420-C.5	0.5 ml

**Phosphotyrosine (P-Tyr); Clone PY20 (Concentrate)**

Species: Mouse  
 Immunogen: Phosphotyrosine conjugated to KLH  
 Clone: PY20  
 Isotype: IgG2b  
 Species Reactivity: All species  
 Positive Control: MCF-7, MDA-231, T47-D cells or breast carcinoma.  
 Specificity: This antibody shows no cross-reaction with other phosphoamino acids and is superb for multiple applications, including staining of formalin-fixed, paraffin-embedded tissues.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0419-C.1	0.1 ml
RA0419-C.5	0.5 ml

**Placental Alkaline Phosphatase (PLAP) (Germ Cell Tumor Marker); Clone ALP/870 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human PLAP protein  
 Clone: ALP/870  
 Isotype: IgG2b, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: HepG2 cells. Placenta or seminoma.  
 Specificity: Reacts with a 70kDa membrane-bound isozyme (Regan and Nagao type) of Placental Alkaline Phosphatase (PLAP) occurring in the placenta during the 3rd trimester of gestation. It is highly specific for PLAP and shows no cross-reaction with other isozymes of alkaline phosphatase.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0005-C.1	0.1 ml
RA0005-C.5	0.5 ml

**Placental Alkaline Phosphatase (PLAP) (Germ Cell Tumor Marker); Clone GM022 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human PLAP protein  
 Clone: GM022  
 Isotype: IgG2b, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: HepG2 cells. Placenta or seminoma.  
 Specificity: Reacts with a 70kDa membrane-bound isozyme (Regan and Nagao type) of Placental Alkaline Phosphatase (PLAP) occurring in the placenta during the 3rd trimester of gestation. It is highly specific for PLAP and shows no cross-reaction with other isozymes of alkaline phosphatase.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0006-C.1	0.1 ml
RA0006-C.5	0.5 ml

**Placental Alkaline Phosphatase (PLAP) (Germ Cell Tumor Marker); Clone PL8-F6 (Concentrate)**

Species: Mouse  
 Immunogen: Purified human PLAP protein  
 Clone: PL8-F6  
 Isotype: IgG2b, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: HepG2 cells. Placenta or seminoma.  
 Specificity: Reacts with a 70kDa membrane-bound isozyme (Regan and Nagao type) of Placental Alkaline Phosphatase (PLAP) occurring in the placenta during the 3rd trimester of gestation. It is highly specific for PLAP and shows no cross-reaction with other isozymes of alkaline phosphatase.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0007-C.1	0.1 ml
RA0007-C.5	0.5 ml

**Plasma Cell Marker; Clone LIV3G11 (7B18) (Concentrate)**

Species: Mouse  
 Immunogen: Pancreatic cancer-related mucin  
 Clone: LIV3G11; same as 7B18  
 Isotype: IgG2a  
 Species Reactivity: Human. Does not react with Rat. Others not known.  
 Positive Control: Tonsil or lymph node.  
 Specificity: This antibody recognizes an intra-cytoplasmic antigen, which shows a very high degree of specificity for plasma cells. This antigen is present in normal as well as neoplastic plasma cells.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0398-C.1	0.1 ml
RA0398-C.5	0.5 ml

**PNL2 (Melanoma Associated Antigen); Clone PNL2 (Concentrate)**

Species: Mouse  
 Immunogen: Melanocyte antigen  
 Clone: PNL2  
 Isotype: IgG1  
 Species Reactivity: Human, Mouse and Dog. Others not known.  
 Positive Control: Melanoma  
 Specificity: Anti-PNL2 is a novel monoclonal antibody which has recently been introduced as an immunohistochemical reagent to stain melanocytes and tumors derived therefrom. The antigen recognized by PNL2 is different from Melan A and gp100. Its epitope is not destroyed by digestion with neuraminidase, i.e., its epitope is not glycosylated.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0415-C.1	0.1 ml
RA0415-C.5	0.5 ml

**Podocalyxin (PODXL) (Hematopoietic Stem Cell Marker); Clone 3D3 (Concentrate)**

Species: Mouse  
 Immunogen: A recombinant protein fragment containing the intracellular, transmembrane, and part of the extracellular domain of human podocalyxin  
 Clone: 3D3  
 Isotype: IgG1  
 Species Reactivity: Human, Rabbit, and Rat. Others not known.  
 Positive Control: HeLa, Raji, Jurkat cells, and angiosarcoma.  
 Specificity: The podocalyxin antibody can identify podocytes in the urine (podocyuria) that may indicate glomerular disease, pre-eclampsia, and other kidney pathology.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0264-C.1	0.1 ml
RA0264-C.5	0.5 ml

**Podoplanin (Lymphatic Endothelium & Alveolar Epithelial Marker); Clone PDPN/601 (Concentrate)**

Species: Rat  
 Immunogen: Recombinant fragment containing platelet-aggregation-stimulating (PLAG) domain of HUMAN podoplanin  
 Clone: PDPN/601  
 Isotype: IgG2a  
 Species Reactivity: Human, Monkey and Gorilla. Does not react with Mouse, Rat, and Hamster. Others not known.  
 Positive Control: NCCIT cells. Kidney, placenta, lung, skeletal muscle and brain.  
 Specificity: This antibody recognizes the platelet aggregation-stimulating (PLAG) domain of podoplanin.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0351-C.1	0.1 ml
RA0351-C.5	0.5 ml

### Podoplanin (PDPN) (Lymphatic Endothelial & Mesothelial Marker); Clone PDPN/1433 (Concentrate)

Species: Mouse  
 Immunogen: Recombinant human Podoplanin (PDPN) protein fragment (aa24-126) (exact sequence is proprietary).  
 Clone: PDPN/1433  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others-not known.  
 Positive Control: HeLa Cells. Angiosarcoma or Mesothelioma.  
 Specificity: This antibody recognizes a muco-protein of 38-43kDa, which is identified Podoplanin (PDPN).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0495-C.1	0.1 ml
RA0495-C.5	0.5 ml
RA0495-C1	1 ml

### Progesterone Receptor (Marker of Progestin Dependence); Clone PR484 (Concentrate)

Species: Mouse  
 Immunogen: Recombinant human Progesterone Receptor protein  
 Clone: PR484  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: T47-D cells or breast cancers.  
 Specificity: This antibody is specific to the progesterone receptor and shows minimal cross-reaction with other members of the family.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0263-C.1	0.1 ml
RA0263-C.5	0.5 ml

### Prolactin Receptor (PRL-R); Clone B6.2 & PRLR742 (Concentrate)

Species: Mouse  
 Immunogen: Semi-purified human prolactin receptor (B6.2); Recombinant human prolactin receptor (PRLR742)  
 Clone: B6.2 & PRLR742  
 Isotype: IgG1, kappa (B6.2); IgG1, kappa (PRLR742)  
 Species Reactivity: Human. Others not known.  
 Positive Control: Breast, placenta, liver or pancreas.  
 Specificity: This antibody recognizes a protein of 70kDa identified as the prolactin receptor.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0271-C.1	0.1 ml
RA0271-C.5	0.5 ml

### Prolactin Receptor (PRL-R); Clone B6.2 (Concentrate)

Species: Mouse  
 Immunogen: Semi-purified human prolactin receptor  
 Clone: B6.2  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Breast, placenta, liver or pancreas.  
 Specificity: This antibody recognizes a protein of 70kDa identified as the prolactin receptor.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0269-C.1	0.1 ml
RA0269-C.5	0.5 ml

### Prolactin Receptor (PRL-R); Clone PRLR742 (Concentrate)

Species: Mouse  
 Immunogen: Recombinant human prolactin receptor  
 Clone: PRLR742  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Breast, placenta, liver or pancreas.  
 Specificity: This antibody recognizes a protein of 70kDa identified as the prolactin receptor.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0270-C.1	0.1 ml
RA0270-C.5	0.5 ml

### Prostate Specific Antigen (PSA); Clone A67-B/E3 (Concentrate)

Species: Mouse  
 Immunogen: PSA from human sperm plasma  
 Clone: A67-B/E3  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: PC12 cells or normal prostate or prostate carcinoma.  
 Specificity: Recognizes a single protein of 33-34kDa, identified as the prostate specific antigen (PSA). This MAb is highly specific to PSA and stains prostatic secretory and ductal epithelium in both normal and neoplastic tissues.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0008-C.1	0.1 ml
RA0008-C.5	0.5 ml
RA0008-C1	1 ml

**Prostate Specific Antigen (PSA); Clone KLK3/801 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human KLK3 protein  
 Clone: KLK3/801  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: PC12 cells or normal prostate or prostate carcinoma.  
 Specificity: Recognizes a single protein of 33-34kDa, identified as the prostate specific antigen (PSA). This MAb is highly specific to PSA and stains prostatic secretory and ductal epithelium in both normal and neoplastic tissues.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0009-C.1	0.1 ml
RA0009-C.5	0.5 ml

**pS2 / pNR-2 / Trefoil Factor 1 (Estrogen-Regulated Protein); Clone GE2 (R47/94) (Concentrate)**

Species: Mouse  
 Immunogen: Synthetic peptide of 28 amino acid residues corresponding to CFDDTVRGVPWCFYPNTIDVPPEEECEF (aa 57-84) from the C-terminus of human pS2.  
 Clone: GE2; same as R47/94  
 Isotype: IgG1, kappa  
 Species Reactivity: Human and Cynomolgus Monkey. Others not known.  
 Positive Control: Spent medium of MCF-7 cells, treated with estrogen. Normal stomach. About 60% of breast carcinomas are positive for pS2, especially those that are also positive for estrogen and/or progesterone receptor.  
 Specificity: This antibody recognizes a polypeptide of 6.5kDa, identified as pS2 estrogen-regulated protein. Its epitope is localized between aa 57-84 of human pS2 protein.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0300-C.1	0.1 ml
RA0300-C.5	0.5 ml

**pS2 / pNR-2 / Trefoil Factor 1 (Estrogen-Regulated Protein); Clone TFF1/1091 (Concentrate)**

Species: Mouse  
 Immunogen: A synthetic peptide from the C-terminus of human TFF1 protein.  
 Clone: TFF1/1091  
 Isotype: IgG1, kappa  
 Species Reactivity: Human and Monkey. Others not known.  
 Positive Control: Spent medium of MCF-7 cells, treated with estrogen. Normal stomach. About 60% of breast carcinomas are positive for pS2, especially those that are also positive for estrogen and/or progesterone receptor.  
 Specificity: This antibody recognizes a polypeptide of 6.5kDa, identified as pS2 estrogen-regulated protein. Its epitope is located in the C-terminus of the human pS2 protein.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0452-C.1	0.1 ml
RA0452-C.5	0.5 ml
RA0452-C1	1 ml

**Renal Cell Carcinoma / gp200 (Carbonic Anhydrase IX); Clone 66.4.C2 (PN-15) (Concentrate)**

Species: Mouse  
 Immunogen: Microsomal fraction of human renal cortical tissue homogenate  
 Clone: 66.4.C2 (PN-15)  
 Isotype: IgG2b, kappa  
 Species Reactivity: Human and Horse. Others not known.  
 Positive Control: Normal kidney or renal cell carcinoma.  
 Specificity: Recognizes a glycoprotein of ~200kDa, identified as carbonic anhydrase IX (CAIX/gp200). Its epitope resides in the carbohydrate domain of gp200. It shows no significant cross-reactivity with other carbohydrate determinants, such as the Lewis blood group antigens, epithelial membrane antigen, HMFG, and AB blood group antigens.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0026-C.1	0.1 ml
RA0026-C.5	0.5 ml

**Renal Cell Carcinoma / gp200 (Carbonic Anhydrase IX); Clone CA9/781 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human CA9 protein  
 Clone: CA9/781  
 Isotype: IgG2b, kappa  
 Species Reactivity: Human and Horse. Others not known.  
 Positive Control: Normal kidney or renal cell carcinoma  
 Specificity: Recognizes a glycoprotein of ~200kDa, identified as carbonic anhydrase IX (CAIX/gp200).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0027-C.1	0.1 ml
RA0027-C.5	0.5 ml

**Retinol Binding Protein-1 (RBP1); Clone G4E4 (Concentrate)**

Species: Mouse  
 Immunogen: Retinol binding protein-1 purified from human plasma  
 Clone: G4E4  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Chimpanzee, Monkey, Goat, Rabbit, Rat, and Mouse. Others not tested.  
 Positive Control: Liver  
 Specificity: This antibody recognizes an epitope within the 74-182 C-terminal sequence (11kD peptide fragment) of human serum Retinol Binding Protein 1 (RBP1).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0446-C.1	0.1 ml
RA0446-C.5	0.5 ml
RA0446-C1	1 ml



**Retinol Binding Protein-1 (RBP1); Clone RBP/872 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human retinol binding protein-1 (RBP1)  
 Clone: RBP/872  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Monkey, Goat, Rabbit, Rat, and Mouse. Others not tested.  
 Positive Control: Liver  
 Specificity: This antibody recognizes a protein of 21kDa-25kDa, identified as retinol binding protein-1 (RBP1).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0447-C.1	0.1 ml
RA0447-C.5	0.5 ml
RA0447-C1	1 ml

**S100 (Astrocyte Marker); Clone 4C4.9 (Concentrate)**

Species: Mouse  
 Immunogen: Purified bovine brain S100 protein  
 Clone: 4C4.9  
 Isotype: IgG2a, kappa  
 Species Reactivity: Human, Mouse, Rat, Cow. Others not known.  
 Positive Control: Brain and Melanoma.  
 Specificity: S-100 protein has been found in normal melanocytes, Langerhans cells, histiocytes, chondrocytes, lipocytes, skeletal and cardiac muscle, Schwann cells, epithelial and myoepithelial cells of the breast, salivary and sweat glands, as well as in glial cells. Neoplasms derived from these cells also express S-100 protein, albeit non-uniformly. A large number of well-differentiated tumors of the salivary gland, adipose and cartilaginous tissue, and Schwann cell-derived tumors express S-100 protein. Almost all malignant melanomas and cases of histiocytosis X are positive for S-100 protein.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0285-C.1	0.1 ml
RA0285-C.5	0.5 ml

**S100A7 / HID5 / Psoriasin (Proliferative Epithelial Cell Marker); Clone S100A7/542 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human S100A7 protein  
 Clone: S100A7/542  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: MCF-7 cells. Breast carcinoma.  
 Specificity: This antibody recognizes a protein of 11kDa, identified as S100A7. This protein is markedly over-expressed in the skin lesions of psoriatic patients. This protein is found to have elevated expression in abnormally differentiating primary keratinocytes and in various carcinomas, including ductal carcinoma in situ. It may serve as a marker of abnormally proliferative epithelia.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0286-C.1	0.1 ml
RA0286-C.5	0.5 ml

**Secretory Component / ECM1; Clone ECM1/792 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human ECM1 protein  
 Clone: ECM1/792  
 Isotype: IgG1, kappa  
 Species Reactivity: Human and Rat. Others not known.  
 Positive Control: Stomach, lung, or breast tumor.  
 Specificity: This antibody reacts with a reduction-resistant epitope present in both free and SIgA bound Secretory Component. It does not react with the cell lines lacking Secretory Component.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0106-C.1	0.1 ml
RA0106-C.5	0.5 ml

**Secretory Component / ECM1; Clone SC05 (Concentrate)**

Species: Mouse  
 Immunogen: Secretory Component protein isolated from human colostrum  
 Clone: SC05  
 Isotype: IgG1, kappa  
 Species Reactivity: Human and Rat. Others not known.  
 Positive Control: Stomach, lung, or breast tumor.  
 Specificity: This antibody reacts with a reduction-resistant epitope present in both free and SIgA bound Secretory Component. It does not react with the cell lines lacking Secretory Component.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0105-C.1	0.1 ml
RA0105-C.5	0.5 ml

**Sex Hormone Binding Globulin (SHBG); Clone SHBG/245 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant full-length human SHBG protein  
 Clone: SHBG/245  
 Isotype: IgG  
 Species Reactivity: Human. Others not known.  
 Positive Control: Liver, Placenta, or Testis.  
 Specificity: This antibody recognizes a protein of 45kDa, identified as SHBG.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0449-C.1	0.1 ml
RA0449-C.5	0.5 ml
RA0449-C1	1 ml

**Smooth Muscle Myosin Heavy Chain (SM-MHC)  
(Leiomyosarcoma & Myoepithelial Cell Marker);  
Clone ID8 (Concentrate)**

Species: Mouse  
Immunogen: Human uterus extract  
Clone: ID8  
Isotype: IgG1, kappa  
Species Reactivity: Human, Cow, Pig, Dog, Cat, Rabbit, Rat, Guinea pig and Chicken. Others not known.  
Positive Control: Uterus or normal breast.  
Specificity: This antibody may be useful for the study of breast tumors as the presence of an intact layer of myoepithelial cells is an important feature which may distinguish benign breast lesions and carcinoma in situ from invasive tumors.  
Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0229-C.1	0.1 ml
RA0229-C.5	0.5 ml

**Smooth Muscle Myosin Heavy Chain (SM-MHC)  
(Leiomyosarcoma & Myoepithelial Cell Marker);  
Clone MYH11/923 (Concentrate)**

Species: Mouse  
Immunogen: Recombinant human MYH11 protein  
Clone: MYH11/923  
Isotype: IgG1, kappa  
Species Reactivity: Human. Predicted to have broad species reactivity.  
Positive Control: Uterus or normal breast.  
Specificity: This antibody may be useful for the study of breast tumors as the presence of an intact layer of myoepithelial cells is an important feature which may distinguish benign breast lesions and carcinoma in situ from invasive tumors.  
Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0230-C.1	0.1 ml
RA0230-C.5	0.5 ml

**Smooth Muscle Myosin Heavy Chain (SM-MHC)  
(Leiomyosarcoma & Myoepithelial Cell Marker);  
Clone SMMS-1 (Concentrate)**

Species: Mouse  
Immunogen: Human uterus extract  
Clone: SMMS-1  
Isotype: IgG1, kappa  
Species Reactivity: Human, Cow, Pig, Dog, Cat, Rabbit, Rat, Guinea pig and Chicken. Others not known.  
Positive Control: Uterus or normal breast.  
Specificity: This antibody may be useful for the study of breast tumors as the presence of an intact layer of myoepithelial cells is an important feature which may distinguish benign breast lesions and carcinoma in situ from invasive tumors.  
Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0228-C.1	0.1 ml
RA0228-C.5	0.5 ml

**SOX10 (Melanoma Marker); Clone SOX10/991  
(Concentrate)**

Species: Mouse  
Immunogen: Recombinant human SOX10 protein fragment (aa115-269) (exact sequence is proprietary).  
Clone: SOX10/991  
Isotype: Mouse / IgG2b, kappa  
Species Reactivity: Reacts with human and mouse. Others not known.  
Positive Control: HepG2 cells. Melanomas, breast carcinomas, gliomas.  
Specificity: Recognizes a protein of ~55kDa, identified as SOX10. This monoclonal antibody is highly specific and does not cross-react with other members of the SOX-family.  
Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0594-C.1	0.1 ml
RA0594-C.5	0.5 ml
RA0594-C1	1 ml

**SUMO-1; Clone SM1/495 (Concentrate)**

Species: Mouse  
Immunogen: Recombinant human SUMO1 protein  
Clone: SM1/495  
Isotype: IgG1, kappa  
Species Reactivity: Human. Shows broad species reactivity.  
Positive Control: Breast carcinoma.  
Specificity: This antibody is specific to SUMO-1 and shows no cross-reaction with either SUMO-2 or SUMO-3.  
Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0332-C.1	0.1 ml
RA0332-C.5	0.5 ml

**SUMO-2/3; Clone SM23/496 (Concentrate)**

Species: Mouse  
Immunogen: Recombinant human SUMO2 protein  
Clone: SM23/496  
Isotype: IgG1, kappa  
Species Reactivity: Human. Shows broad species reactivity.  
Positive Control: HeLa cells or breast carcinoma.  
Specificity: This antibody reacts with both SUMO-2 and SUMO-3.  
Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0295-C.1	0.1 ml
RA0295-C.5	0.5 ml

**TAG-72 (Tumor-Associated Glycoprotein); Clone B72.3 & CA72/733 (Concentrate)**

Species: Mouse

Immunogen: TAG-72 protein (B72.3 &amp; CA72/733)

Clone: B72.3 &amp; CA72/733

Isotype: IgG1, kappa (B72.3 &amp; CA72/733)

Species Reactivity: Human, Cow, Dog, and Rat. Others not known.

Positive Control: Jurkat cells, breast or lung carcinoma.

Specificity: Recognizes an oncofetal antigen of 220kDa, identified as a tumor-associated glycoprotein (TAG-72) with properties of a mucin. This antibody defines the mucin-carried sialylated-Tn epitope. TAG-72 is usually expressed by adenocarcinomas, but is negative in mesotheliomas. Studies have reported that this antibody has 80% sensitivity and 93% specificity for pulmonary adenocarcinoma. Therefore, TAG-72 is a useful marker to distinguish between mesothelioma and adenocarcinoma. However, false positive reactions can occur, so results must be interpreted with the utmost degree of caution.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0370-C.1	0.1 ml
RA0370-C.5	0.5 ml

**TAG-72 (Tumor-Associated Glycoprotein); Clone B72.3 & CC49 (Concentrate)**

Species: Mouse

Immunogen: TAG-72 protein (B72.3 &amp; CC49)

Clone: B72.3 &amp; CC49

Isotype: IgG1, kappa (B72.3 &amp; CC49)

Species Reactivity: Human, Cow, Dog, and Rat. Others not known.

Positive Control: Jurkat cells, breast or lung carcinoma.

Specificity: Recognizes an oncofetal antigen of 220kDa, identified as a tumor-associated glycoprotein (TAG-72) with properties of a mucin. This antibody defines the mucin-carried sialylated-Tn epitope. TAG-72 is usually expressed by adenocarcinomas, but is negative in mesotheliomas. Studies have reported that this antibody has 80% sensitivity and 93% specificity for pulmonary adenocarcinoma. Therefore, TAG-72 is a useful marker to distinguish between mesothelioma and adenocarcinoma. However, false positive reactions can occur, so results must be interpreted with the utmost degree of caution.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0371-C.1	0.1 ml
RA0371-C.5	0.5 ml

**TAG-72 (Tumor-Associated Glycoprotein); Clone B72.3 (Concentrate)**

Species: Mouse

Immunogen: Membrane-enriched fraction of a human breast carcinoma liver metastasis

Clone: B72.3

Isotype: IgG1, kappa

Species Reactivity: Human, Cow, Dog, Hamster, and Rat. Others not known.

Positive Control: Jurkat cells, breast or lung carcinoma.

Specificity: Recognizes an oncofetal antigen of 220kDa, identified as a tumor-associated glycoprotein (TAG-72) with properties of a mucin. This antibody defines the mucin-carried sialylated-Tn epitope. TAG-72 is usually expressed by adenocarcinomas, but is negative in mesotheliomas. Studies have reported that this antibody has 80% sensitivity and 93% specificity for pulmonary adenocarcinoma. Therefore, TAG-72 is a useful marker to distinguish between mesothelioma and adenocarcinoma. However, false positive reactions can occur, so results must be interpreted with the utmost degree of caution.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0367-C.1	0.1 ml
RA0367-C.5	0.5 ml

**TAG-72 (Tumor-Associated Glycoprotein); Clone CA72/733 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human TAG-72 protein

Clone: CA72/733

Isotype: IgG1, kappa

Species Reactivity: Human, Cow, Dog, and Rat. Others not known.

Positive Control: Jurkat cells, breast or lung carcinoma.

Specificity: Recognizes an oncofetal antigen of 220kDa, identified as a tumor-associated glycoprotein (TAG-72) with properties of a mucin. This antibody defines the mucin-carried sialylated-Tn epitope. TAG-72 is usually expressed by adenocarcinomas, but is negative in mesotheliomas. Studies have reported that this antibody has 80% sensitivity and 93% specificity for pulmonary adenocarcinoma. Therefore, TAG-72 is a useful marker to distinguish between mesothelioma and adenocarcinoma. However, false positive reactions can occur, so results must be interpreted with the utmost degree of caution.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0369-C.1	0.1 ml
RA0369-C.5	0.5 ml

**TAG-72 (Tumor-Associated Glycoprotein); Clone CC49 (Concentrate)**

Species: Mouse  
 Immunogen: Purified TAG-72 protein  
 Clone: CC49  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Cow, Dog, and Rat. Others not known.  
 Positive Control: Jurkat cells, breast or lung carcinoma.  
 Specificity: Recognizes an oncofetal antigen of 220kDa, identified as a tumor-associated glycoprotein (TAG-72) with properties of a mucin. This antibody defines the mucin-carried sialylated-Tn epitope. TAG-72 is usually expressed by adenocarcinomas, but is negative in mesotheliomas. Studies have reported that this antibody has 80% sensitivity and 93% specificity for pulmonary adenocarcinoma. Therefore, TAG-72 is a useful marker to distinguish between mesothelioma and adenocarcinoma. However, false positive reactions can occur, so results must be interpreted with the utmost degree of caution.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0368-C.1	0.1 ml
RA0368-C.5	0.5 ml

**Tenascin C (Stromal Marker For Epithelial Malignancy); Clone T2H5 (Concentrate)**

Species: Mouse  
 Immunogen: Human breast carcinoma  
 Clone: T2H5  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Extracellular matrix in tonsil and blood vessels. Stroma of many tumors such as breast, squamous cell, and lung carcinomas. Staining of normal fibroblasts serves as internal positive control.  
 Specificity: In Western blotting, it reacts with two bands at ~MW of 210kDa and 300kDa, identified as two isoforms of Tenascin C. Specificity of this monoclonal antibody is validated by sequential immunoprecipitation with a polyclonal antibody against Tenascin C.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0135-C.1	0.1 ml
RA0135-C.5	0.5 ml

**TGF-alpha (Transforming Growth Factor alpha); Clone 1E8-G6 (Concentrate)**

Species: Mouse  
 Immunogen: A 10-amino acid synthetic peptide (aa 34-43) from human TGF $\alpha$ .  
 Clone: 1E8-G6  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Rabbit, and Zebrafish. Others not known.  
 Positive Control: Jurkat or Ramos cells. Heart, kidney, pituitary, breast cancer, melanoma.  
 Specificity: This antibody reacts with TGF-alpha and shows no cross-reaction with EGF or the neuropeptide synenkephalin. The staining with this antibody is completely blocked by the peptide used for raising the antibody.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0305-C.1	0.1 ml
RA0305-C.5	0.5 ml

**TGF-alpha (Transforming Growth Factor alpha); Clone P/T1 (Concentrate)**

Species: Mouse  
 Immunogen: A 10-amino acid synthetic peptide (aa 34-43) from human TGF $\alpha$ .  
 Clone: P/T1  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Rabbit, and Zebrafish. Others not known.  
 Positive Control: Jurkat or Ramos cells. Heart, kidney, pituitary, breast cancer, melanoma.  
 Specificity: This antibody reacts with TGF-alpha and shows no cross-reaction with EGF or the neuropeptide synenkephalin. The staining with this antibody is completely blocked by the peptide used for raising the antibody.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0307-C.1	0.1 ml
RA0307-C.5	0.5 ml

**TGF-alpha (Transforming Growth Factor alpha); Clone TG86 & P/T1 (Concentrate)**

Species: Mouse  
 Immunogen: A 10-amino acid synthetic peptide (aa 34-43) from human TGF $\alpha$  (TG86 & P/T1).  
 Clone: TG86 & P/T1  
 Isotype: IgG1, kappa (TG86 & P/T1)  
 Species Reactivity: Human, Rabbit, and Zebrafish. Others not known.  
 Positive Control: Jurkat or Ramos cells. Heart, kidney, pituitary, breast cancer, melanoma.  
 Specificity: This antibody reacts with TGF-alpha and shows no cross-reaction with EGF or the neuropeptide synenkephalin. The staining with this antibody is completely blocked by the peptide used for raising the antibody.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0308-C.1	0.1 ml
RA0308-C.5	0.5 ml

**TGF-alpha (Transforming Growth Factor alpha); Clone TG86 (Concentrate)**

Species: Mouse

Immunogen: A 10-amino acid synthetic peptide (aa 34-43) from human TGF $\alpha$ .

Clone: TG86

Isotype: IgG1, kappa

Species Reactivity: Human, Rabbit, and Zebrafish. Others not known.

Positive Control: Jurkat or Ramos cells. Heart, kidney, pituitary, breast cancer, melanoma.

Specificity: This antibody reacts with TGF-alpha and shows no cross-reaction with EGF or the neuropeptide synenkephalin. The staining with this antibody is completely blocked by the peptide used for raising the antibody.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0306-C.1	0.1 ml
RA0306-C.5	0.5 ml

**Thymidylate Synthase (5-FU Resistance Marker); Clone TMS715 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human thymidylate synthase

Clone: TMS715

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: 5-FU-resistant colon carcinoma cell lines (NCI H630R10, NCI H630R1), 5-FU-resistant breast cancer cell lines, MCF-Ad5 and MCF-Ad10. Colorectal, gastric, head & neck, and breast carcinomas.

Specificity: This antibody recognizes a protein of 36kDa, identified as Thymidylate Synthase (TS) (EC 2.1.1.45).

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0327-C.1	0.1 ml
RA0327-C.5	0.5 ml

**Thymidylate Synthase (5-FU Resistance Marker); Clone TS106 & TMS715 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human thymidylate synthase (TS106 & TMS715)

Clone: TS106 & TMS715

Isotype: IgG1, kappa (TS106 & TMS715)

Species Reactivity: Human. Others not known.

Positive Control: 5-FU-resistant colon carcinoma cell lines (NCI H630R10, NCI H630R1), 5-FU-resistant breast cancer cell lines, MCF-Ad5 and MCF-Ad10. Colorectal, gastric, head & neck, and breast carcinomas.

Specificity: This antibody recognizes a protein of 36kDa, identified as Thymidylate Synthase (TS) (EC 2.1.1.45).

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0328-C.1	0.1 ml
RA0328-C.5	0.5 ml

**Thymidylate Synthase (5-FU Resistance Marker); Clone TS106 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human thymidylate synthase

Clone: TS106

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: 5-FU-resistant colon carcinoma cell lines (NCI H630R10, NCI H630R1), 5-FU-resistant breast cancer cell lines, MCF-Ad5 and MCF-Ad10. Colorectal, gastric, head & neck, and breast carcinomas.

Specificity: This antibody recognizes a protein of 36kDa, identified as Thymidylate Synthase (TS) (EC 2.1.1.45).

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0326-C.1	0.1 ml
RA0326-C.5	0.5 ml

**Thyroglobulin (Thyroidal Cell Marker); Clone 2H11 & 6E1 (Concentrate)**

Species: Mouse

Immunogen: Human thyroid follicular cells (2H11 & 6E1)

Clone: 2H11 & 6E1

Isotype: IgG1, kappa (2H11 & 6E1)

Species Reactivity: Human, Mouse, Rat. Others not known.

Positive Control: Thyroid

Specificity: The vast majority of follicular carcinomas of the thyroid will give positive immunoreactivity for anti-thyroglobulin even though sometimes only focally. Poorly differentiated carcinomas of the thyroid are frequently anti-thyroglobulin negative. Adenocarcinomas of an origin other than the thyroid do not react with this antibody.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0303-C.1	0.1 ml
RA0303-C.5	0.5 ml

**Thyroglobulin (Thyroidal Cell Marker); Clone 2H11 (Concentrate)**

Species: Mouse

Immunogen: Human thyroid follicular cells

Clone: 2H11

Isotype: IgG1, kappa

Species Reactivity: Human, Mouse, Rat. Others not known.

Positive Control: Thyroid

Specificity: The vast majority of follicular carcinomas of the thyroid will give positive immunoreactivity for anti-thyroglobulin even though sometimes only focally. Poorly differentiated carcinomas of the thyroid are frequently anti-thyroglobulin negative. Adenocarcinomas of an origin other than the thyroid do not react with this antibody.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0301-C.1	0.1 ml
RA0301-C.5	0.5 ml

**Thyroglobulin (Thyroidal Cell Marker); Clone 6E1 (Concentrate)**

Species: Mouse  
 Immunogen: Human thyroid follicular cells  
 Clone: 6E1  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Mouse, Rat. Others not known.  
 Positive Control: Thyroid  
 Specificity: The vast majority of follicular carcinomas of the thyroid will give positive immunoreactivity for anti-thyroglobulin even though sometimes only focally. Poorly differentiated carcinomas of the thyroid are frequently anti-thyroglobulin negative. Adenocarcinomas of an origin other than the thyroid do not react with this antibody.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0302-C.1	0.1 ml
RA0302-C.5	0.5 ml

**Thyroglobulin (Thyroidal Cell Marker); Clone TGB04 & TGB05 (Concentrate)**

Species: Mouse  
 Immunogen: Human thyroid follicular cells (TGB04 & TGB05)  
 Clone: TGB04 & TGB05  
 Isotype: IgG1, kappa (TGB04 & TGB05)  
 Species Reactivity: Human, Mouse, Rat. Others not known.  
 Positive Control: Thyroid  
 Specificity: The vast majority of follicular carcinomas of the thyroid will give positive immunoreactivity for anti-thyroglobulin even though sometimes only focally. Poorly differentiated carcinomas of the thyroid are frequently anti-thyroglobulin negative. Adenocarcinomas of an origin other than the thyroid do not react with this antibody.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0304-C.1	0.1 ml
RA0304-C.5	0.5 ml

**TIGIT; Clone TG1 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant peptide from extracellular domain of human TIGIT.  
 Clone: TG1  
 Isotype: IgG1, kappa  
 Species Reactivity: Human.  
 Positive Control: Tonsil  
 Specificity: Human TIGIT / T-Cell marker (Immune Checkpoint Protein).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
DIA-TG1-M	0.1 ml
DIA-TG1	0.5 ml

**TNF-alpha (Tumor Necrosis Factor alpha); Clone 4C6-H8 (Concentrate)**

Species: Mouse  
 Immunogen: A hexadecapeptide corresponding to amino acids 115-130 of human TNF-alpha, conjugated to thyroglobulin.  
 Clone: 4C6-H8  
 Isotype: IgM, kappa  
 Species Reactivity: Human, Mouse, Rat, Rabbit, Cat, Dog, and Zebrafish. Others not known.  
 Positive Control: HeLa, HL-60, or A431 cells. Macrophages in lymph node or tonsil.  
 Specificity: This antibody reacts with Tumor necrosis factor-alpha. It reacts on paraffin sections with macrophages in which the cytoplasm is stained. Some keratinocytes are also positive (tonsils).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0314-C.1	0.1 ml
RA0314-C.5	0.5 ml

**TNF-alpha (Tumor Necrosis Factor alpha); Clone P/T2 (Concentrate)**

Species: Mouse  
 Immunogen: A hexadecapeptide corresponding to amino acids 115-130 of human TNF-alpha, conjugated to thyroglobulin.  
 Clone: P/T2  
 Isotype: IgM, kappa  
 Species Reactivity: Human, Mouse, Rat, Rabbit, Cat, Dog, and Zebrafish. Others not known.  
 Positive Control: HeLa, HL-60, or A431 cells. Macrophages in lymph node or tonsil.  
 Specificity: This antibody reacts with Tumor necrosis factor-alpha. It reacts on paraffin sections with macrophages in which the cytoplasm is stained. Some keratinocytes are also positive (tonsils).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0315-C.1	0.1 ml
RA0315-C.5	0.5 ml

**TNF-alpha (Tumor Necrosis Factor alpha); Clone TNF706 & P/T2 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human TNF-alpha  
 Clone: TNF706 & P/T2  
 Isotype: IgM, kappa (TNF706 & P/T2)  
 Species Reactivity: Human, Mouse, Rat, Rabbit, Cat, Dog, and Zebrafish. Others not known.  
 Positive Control: HeLa, HL-60, or A431 cells. Macrophages in lymph node or tonsil.  
 Specificity: This antibody reacts with Tumor necrosis factor-alpha. It reacts on paraffin sections with macrophages in which the cytoplasm is stained. Some keratinocytes are also positive (tonsils).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0317-C.1	0.1 ml
RA0317-C.5	0.5 ml

**TNF-alpha (Tumor Necrosis Factor alpha); Clone TNF706 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human TNF-alpha

Clone: TNF706

Isotype: IgM, kappa

Species Reactivity: Human, Mouse, Rat, Rabbit, Cat, Dog, and Zebrafish. Others not known.

Positive Control: HeLa, HL-60, or A431 cells. Macrophages in lymph node or tonsil.

Specificity: This antibody reacts with Tumor necrosis factor-alpha. It reacts on paraffin sections with macrophages in which the cytoplasm is stained. Some keratinocytes are also positive (tonsils).

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0316-C.1	0.1 ml
RA0316-C.5	0.5 ml

**Topoisomerase (DNA) I, Mitochondrial (TOP1MT); Clone TOP1MT/488 (Concentrate)**

Species: Mouse.

Immunogen: Recombinant full-length human TOP1MT protein.

Clone: TOP1MT/488

Isotype: IgG2b, kappa

Species Reactivity: Reacts with human. Others not known.

Positive Control: A431 cells. Heart, skeletal muscle, brain, or fetal liver.

Specificity: Recognizes Topoisomerase (DNA) I.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0520-C.1	0.1 ml
RA0520-C.5	0.5 ml
RA0520-C1	1 ml

**TRAcP (Tartrate-Resistant Acid Phosphatase); Clone ACP5/1070 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human ACP5 protein

Clone: ACP5/1070

Isotype: IgG2b, kappa

Species Reactivity: Human, Mouse, and Rat. Others not known.

Positive Control: HepG2, 293T, K562 or RPMI-8226 Cells.

Spleen from Hairy Cell Leukemia (HCL) patient.

Specificity: This antibody recognizes a protein of 35kDa, which is identified as tartrate-resistant acid phosphatase (TRAcP). It exists as two isoforms (5a and 5b). This antibody reacts with both the isoforms. The anti-TRAcP antibody labels the cells of Hairy Cell Leukemia (HCL) with a high degree of sensitivity and specificity. Other cells stained with this antibody are tissue macrophages and osteoclasts.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0422-C.5	0.5 ml

**Transgelin (SM22-alpha); Clone TAGLN/247 (Concentrate)**

Species: Mouse

Immunogen: Recombinant full-length human transgelin (TAGLN) protein.

Clone: TAGLN/247

Isotype: IgG1, kappa

Species Reactivity: Human, Cow, Pig, Rabbit, and Mouse. Others not known.

Positive Control: U-2 OS, Hs68 or WI 38 cells. Colon carcinoma.

Specificity: This antibody recognizes a 22kDa protein, identified as Transgelin, also designated SM22-alpha. It may cross-react with SM22-beta.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0451-C.1	0.1 ml
RA0451-C.5	0.5 ml
RA0451-C1	1 ml

**TRIM29 (Lung Squamous Cell Carcinoma Marker); Clone TRIM29/1041 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human TRIM29 protein fragment (amino acids approximately 1-150)

Clone: TRIM29/1041

Isotype: IgG2a, kappa

Species Reactivity: Human. Others not known.

Positive Control: A431 cells. Tonsil or Squamous cell carcinoma.

Specificity: This antibody recognizes a 66kDa protein, which is identified as Tripartite motif-containing protein 29 (TRIM29).

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0454-C.1	0.1 ml
RA0454-C.5	0.5 ml
RA0454-C1	1 ml

**TTF-1 / NKX2.1 (Thyroid & Lung Epithelial Marker); Clone 8G7G3/1 & NX2.1/690 (Concentrate)**

Species: Mouse

Immunogen: Recombinant full length Rat TTF-1 protein (8G7G3/1); Recombinant TTF-1 protein (NX2.1/690)

Clone: 8G7G3/1 &amp; NX2.1/690

Isotype: IgG1, kappa (8G7G3/1 &amp; NX2.1/690)

Species Reactivity: Human, Mouse, and Rat. Others not known.

Positive Control: MAD109, MLE-15, H441-4, or H345 cells.

Normal thyroid or lung.

Specificity: Recognizes a protein of 40kDa, identified as thyroid transcription factor 1 (TTF-1).

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0313-C.1	0.1 ml
RA0313-C.5	0.5 ml



**TTF-1 / NKX2.1 (Thyroid & Lung Epithelial Marker); Clone 8G7G3/1 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant full length Rat TTF-1 protein  
 Clone: 8G7G3/1  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Mouse, and Rat. Shows a broad species reactivity.  
 Positive Control: MAD109, MLE-15, H441-4, or H345 cells.  
 Normal thyroid or lung.  
 Specificity: Recognizes a protein of 40kDa, identified as thyroid transcription factor 1 (TTF-1).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0310-C.1	0.1 ml
RA0310-C.5	0.5 ml

**TTF-1 / NKX2.1 (Thyroid & Lung Epithelial Marker); Clone NX2.1/690 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant TTF-1 protein  
 Clone: NX2.1/690  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Mouse, and Rat. Others not known.  
 Positive Control: MAD109, MLE-15, H441-4, or H345 cells.  
 Normal thyroid or lung.  
 Specificity: Recognizes a protein of 40kDa, identified as thyroid transcription factor 1 (TTF-1).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0312-C.1	0.1 ml
RA0312-C.5	0.5 ml

**Tubulin-alpha (Microtubule Marker); Clone TU-02 (Concentrate)**

Species: Mouse  
 Immunogen: Full length native protein corresponding to Pig alpha-tubulin  
 Clone: TU-02  
 Isotype: IgM, kappa  
 Species Reactivity: Human, Pig, Mouse, and Rat. Others not known.  
 Positive Control: A431, HeLa or NIH/3T3 cells. Colon tissue.  
 Specificity: This antibody recognizes an epitope on the N-terminal structural domain of alpha-tubulin.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0324-C.1	0.1 ml
RA0324-C.5	0.5 ml

**Tubulin-alpha (Microtubule Marker); Clone TU-16 (Concentrate)**

Species: Mouse  
 Immunogen: Full length native protein corresponding to Pig alpha-tubulin.  
 Clone: TU-16  
 Isotype: IgM, kappa  
 Species Reactivity: Human, Pig, Cow, Mouse, Rat, Hamster, Chicken, and many others.  
 Positive Control: A431, HeLa, Raji, or NIH/3T3 cells. Colon tissue.  
 Specificity: This antibody recognizes an epitope of alpha-tubulin.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0325-C.1	0.1 ml
RA0325-C.5	0.5 ml

**Tumor Endothelial Marker 8 (TEM8) / Anthrax Toxin Receptor 1; Clone TEM8/589 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human TEM8 protein  
 Clone: TEM8/589  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Non-human Primates, Dog, and Rabbit. Others not known.  
 Positive Control: P23 cells. Colon or breast carcinoma.  
 Specificity: This antibody recognizes a protein of ~63kDa, identified as Tumor Endothelial Marker 8 (TEM8).  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0365-C.1	0.1 ml
RA0365-C.5	0.5 ml

**Tyrosinase (Melanoma Marker); Clone OCA1/812 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human tyrosinase protein  
 Clone: OCA1/812  
 Isotype: IgG2a, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: SK-MEL-13, SK-MEL-19, SK-MEL-30, SK-MEL-37 cells or Melanoma.  
 Specificity: Recognizes a cluster of proteins between 70-80kDa, identified as tyrosinase. Occasionally, a minor band at 55kDa is also detected. This antibody shows no cross-reaction with MAGE-1 and tyrosinase-related protein 1, TRP-1/gp75.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0330-C.1	0.1 ml
RA0330-C.5	0.5 ml

**Tyrosinase (Melanoma Marker); Clone T311 & OCA1/812 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human tyrosinase protein (T311 & OCA1/812)

Clone: T311 & OCA1/812

Isotype: IgG2a, kappa (T311 & OCA1/812)

Species Reactivity: Human. Others not known.

Positive Control: SK-MEL-13, SK-MEL-19, SK-MEL-30, SK-MEL-37 cells or Melanoma.

Specificity: Recognizes a cluster of proteins between 70-80kDa, identified as tyrosinase. Occasionally, a minor band at 55kDa is also detected. This antibody shows no cross-reaction with MAGE-1 and tyrosinase-related protein 1, TRP-1/gp75.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0331-C.1	0.1 ml
RA0331-C.5	0.5 ml

**Tyrosinase (Melanoma Marker); Clone T311 (Concentrate)**

Species: Mouse

Immunogen: Recombinant tyrosinase protein

Clone: T311

Isotype: IgG2a, kappa

Species Reactivity: Human. Others not known.

Positive Control: SK-MEL-13, SK-MEL-19, SK-MEL-30, SK-MEL-37 cells or Melanoma.

Specificity: Recognizes a cluster of proteins between 70-80kDa, identified as tyrosinase. Occasionally, a minor band at 55kDa is also detected. This antibody shows no cross-reaction with MAGE-1 and tyrosinase-related protein 1, TRP-1/gp75.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0329-C.1	0.1 ml
RA0329-C.5	0.5 ml

**Vimentin (Mesenchymal Cell Marker); Clone LN6 (Concentrate)**

Species: Mouse

Immunogen: Human thymic nuclear extract

Clone: LN6

Isotype: IgM

Species Reactivity: Human, Cat, Cow, Pig, Rat, Rabbit, Mouse, and Sheep. Others not known.

Positive Control: Jurkat cells, Sarcomas, Melanomas.

Specificity: This antibody reacts with a 58kDa protein identified as vimentin. It reacts with a non-hematopoietic epitope of vimentin and shows no cross-reaction with other closely related intermediate filament proteins (IFP's) such as desmin, keratin, neurofilament, and glial fibrillary acid protein.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0338-C.1	0.1 ml
RA0338-C.5	0.5 ml

**Vimentin (Mesenchymal Cell Marker); Clone VM452 (Concentrate)**

Species: Mouse

Immunogen: Human vimentin recombinant protein

Clone: VM452

Isotype: IgG1

Species Reactivity: Human, Cow, Dog, Cat, Pig, Goat and

Chicken. Does not react with Mouse and Rat. Others not known.

Positive Control: Jurkat cells, Sarcomas, Melanomas.

Specificity: This antibody reacts with a 58kDa protein identified as vimentin. It shows no cross-reaction with other closely related intermediate filament proteins (IFP's) such as desmin, keratin, neurofilament, and glial fibrillary acid protein.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0337-C.1	0.1 ml
RA0337-C.5	0.5 ml

**von Willebrand Factor / Factor VIII Related-Ag (Endothelial Marker); Clone 3E2D10 & VWF635 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human vWF fragment (3E2D10 & VWF635).

Clone: 3E2D10 & VWF635

Isotype: IgG1, kappa (3E2D10 & VWF635)

Species Reactivity: Human. Others not known.

Positive Control: HUVEC or Tonsil.

Specificity: This antibody helps to establish the endothelial nature of some lesions of disputed histogenesis, e.g. Kaposi's sarcoma and cardiac myxoma. It is widely used for differentiating vascular lesions from those of other tissue differentiation within a panel of other vascular markers, although not all tumors of endothelial differentiation contain this antigen.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0341-C.1	0.1 ml
RA0341-C.5	0.5 ml

**von Willebrand Factor / Factor VIII Related-Ag (Endothelial Marker); Clone 3E2D10 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human vWF fragment spanning aa 845-949.

Clone: 3E2D10

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: HUVEC or Tonsil.

Specificity: This antibody helps to establish the endothelial nature of some lesions of disputed histogenesis, e.g. Kaposi's sarcoma and cardiac myxoma. It is widely used for differentiating vascular lesions from those of other tissue differentiation within a panel of other vascular markers, although not all tumors of endothelial differentiation contain this antigen.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0339-C.1	0.1 ml
RA0339-C.5	0.5 ml

**von Willebrand Factor / Factor VIII Related-Ag (Endothelial Marker); Clone IIIE2.34 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human vWF fragment spanning aa 845-949

Clone: IIIE2.34

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: HUVEC or Tonsil.

Specificity: This antibody helps to establish the endothelial nature of some lesions of disputed histogenesis, e.g. Kaposi's sarcoma and cardiac myxoma. It is widely used for differentiating vascular lesions from those of other tissue differentiation within a panel of other vascular markers, although not all tumors of endothelial differentiation contain this antigen.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0342-C.1	0.1 ml
RA0342-C.5	0.5 ml

**von Willebrand Factor / Factor VIII Related-Ag (Endothelial Marker); Clone VWF635 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human vWF fragment.

Clone: VWF635

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: HUVEC or Tonsil.

Specificity: This antibody helps to establish the endothelial nature of some lesions of disputed histogenesis, e.g. Kaposi's sarcoma and cardiac myxoma. It is widely used for differentiating vascular lesions from those of other tissue differentiation within a panel of other vascular markers, although not all tumors of endothelial differentiation contain this antigen.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0340-C.1	0.1 ml
RA0340-C.5	0.5 ml

**Wilm's Tumor 1 (WT1) (Wilm's Tumor & Mesothelial Marker); Clone 6F-H2 (Concentrate)**

Species: Mouse

Immunogen: Recombinant protein corresponding to residues 1-181 of human WT1.

Clone: 6F-H2

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: K562 cells, Wilm's Tumor, or fetal kidney.

Specificity: Recognizes a 47-55kDa tumor suppressor protein, identified as Wilm's Tumor (WT1) protein. This antibody reacts with all isoforms of the full-length WT1 and also identifies WT1 lacking exon 2-encoded amino acids, frequently found in subsets of sporadic Wilm's tumors.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0343-C.1	0.1 ml
RA0343-C.5	0.5 ml

**Wilm's Tumor 1 (WT1) (Wilm's Tumor & Mesothelial Marker); Clone WMT/857 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human WT1 protein

Clone: WMT/857

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: K562 cells, Wilm's Tumor, or fetal kidney.

Specificity: Recognizes a 47-55kDa tumor suppressor protein, identified as Wilm's Tumor (WT1) protein. This antibody reacts with all isoforms of the full-length WT1 and also identifies WT1 lacking exon 2-encoded amino acids, frequently found in subsets of sporadic Wilm's tumors.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0344-C.1	0.1 ml
RA0344-C.5	0.5 ml

**ZAP-70 (Chronic Lymphocytic Leukemia Marker); Clone ZAP70/528 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human ZAP-70 protein

Clone: ZAP70/528

Isotype: IgG2a, kappa

Species Reactivity: Human. Others not known.

Positive Control: Jurkat cells. Tonsil or lymph node.

Specificity: This antibody recognizes a 70kDa protein identified as ZAP-70.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0453-C.1	0.1 ml
RA0453-C.5	0.5 ml
RA0453-C1	1 ml

**ZAP-70 [Zeta-chain (TCR) Associated Protein Kinase 70kDa]; Clone 2F3.2 (Concentrate)**

Species: Mouse

Immunogen: Recombinant ZAP-70 protein including residues 1-254 and encompassing the SH2 domains of human ZAP-70.

Clone: 2F3.2

Isotype: IgG2a, kappa

Species Reactivity: Human. Others not known.

Positive Control: Jurkat cells. Tonsil or lymph node.

Specificity: Recognizes human ZAP-70; does not recognize murine ZAP-70.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0345-C.1	0.1 ml
RA0345-C.5	0.5 ml

## Polyclonal Concentrate

### AMACR / p504S (Prostate Cancer Marker); Rabbit Polyclonal (Concentrate)

Species: Rabbit  
 Immunogen: A synthetic peptide from human AMACR protein  
 Clone: Rabbit Polyclonal  
 Isotype: IgG  
 Species Reactivity: Human. Others not known.  
 Positive Control: HEK cells or Prostate Adenocarcinoma.  
 Specificity: This antibody recognizes a protein of 54kDa, which is identified as AMACR, also known as p504S.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0354-C.1	0.1 ml
RA0354-C.5	0.5 ml

### beta-Catenin (p120); Rabbit Polyclonal (Concentrate)

Species: Rabbit  
 Immunogen: A synthetic peptide from the middle of beta-Catenin (p120) protein  
 Clone: Polyclonal  
 Isotype: IgG  
 Species Reactivity: Human and Mouse. Others not known.  
 Positive Control: HeLa or MCF-7 cells. Breast carcinoma.  
 Specificity: Immuno-staining of beta-catenin and E-cadherin is helpful in the accurate identification of ductal and lobular neoplasms, including a distinction between low-grade ductal carcinoma in situ (DCIS) and lobular carcinoma. Additionally, some rectal and gastric adenocarcinomas demonstrate diffuse cytoplasmic beta-catenin staining and a lack of membranous staining, mimicking the staining pattern observed with lobular breast carcinomas.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0104-C.1	0.1 ml
RA0104-C.5	0.5 ml

### CD8A (Cytotoxic & Suppressor T-Cell Marker); Rabbit Polyclonal (Concentrate)

Species: Rabbit  
 Immunogen: Human CD8 recombinant fragment corresponding to aa 200-250  
 Clone: Polyclonal  
 Isotype: IgG  
 Species Reactivity: Human. Others not known.  
 Positive Control: HuT78 or hPBL. Tonsil.  
 Specificity: CD8 is a 68 kDa transmembrane glycoprotein expressed as a heterodimer by a majority of thymocytes, and by major histocompatibility complex (MHC) class I restricted, mature, suppressor/cytotoxic T-cells.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0044-C.1	0.1 ml
RA0044-C.5	0.5 ml

### Chromogranin A / CHGA (Neuroendocrine Marker); Polyclonal (Concentrate)

Species: Rabbit  
 Immunogen: Recombinant human full-length Chromogranin A protein.  
 Clone: Polyclonal.  
 Isotype: IgG, kappa  
 Species Reactivity: Human. Does not react with rat. Others not known.  
 Positive Control: PC12 cells. Adrenal gland, bowel, parathyroid, pancreas, or pheochromocytoma.  
 Specificity: Recognizes the Chromogranin A protein.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0518-C.1	0.1 ml
RA0518-C.5	0.5 ml
RA0518-C1	1 ml

### Helicobacter Pylori; Rabbit Polyclonal (Concentrate)

Species: Rabbit  
 Immunogen: Total sonicate of Helicobacter pylori  
 Clone: Rabbit Polyclonal  
 Isotype: IgG  
 Species Reactivity: Helicobacter pylori  
 Positive Control: Helicobacter pylori infected stomach biopsy.  
 Specificity: This antibody stains the individual H. pylori bacterium when it presents on the surface of the epithelium or in the cytoplasm of the epithelial cells in biopsy tissue sections from the antrum and body of the stomach.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0379-C.1	0.1 ml
RA0379-C.5	0.5 ml

### Napsin A (Lung Adenocarcinoma Marker); Rabbit Polyclonal (Concentrate)

Species: Rabbit  
 Immunogen: A synthetic peptide (RFDPKASSSFQANGTKFAIQYGT) of human Napsin-A.  
 Clone: Rabbit Polyclonal  
 Isotype: IgG  
 Species Reactivity: Human. Others not known.  
 Positive Control: Lung adenocarcinoma.  
 Specificity: Immunohistochemical studies revealed high expression levels of napsin A in human lung and kidney, but low expression in spleen. Napsin A is expressed in type II pneumocytes and in adenocarcinomas of lung.  
 Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0348-C.1	0.1 ml
RA0348-C.5	0.5 ml

### **p40 (deltaNp63) (Squamous, Basal, or Myoepithelial Cell Marker); Rabbit Polyclonal (Concentrate)**

Species: Rabbit

Immunogen: A synthetic peptide (ENNAQTQFSEPQY)

corresponding to aa 5-17 of human p40

Clone: Rabbit Polyclonal

Isotype: IgG

Species Reactivity: Human, Mouse, Rat, and Cow. Others not known.

Positive Control: HEK293 cells, Prostate Carcinoma, or Lung Squamous Cell Carcinoma.

Specificity: p40 (p63 delta) is a marker recently determined to be highly specific for squamous basal cells in the immunohistochemistry (IHC) application.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0346-C.1	0.1 ml
RA0346-C.5	0.5 ml

### **TIMP-3 (Tissue Inhibitor of Metalloproteinase-3); Rabbit Polyclonal (Concentrate)**

Species: Rabbit

Immunogen: Recombinant fragment corresponding to Human

TIMP3 aa 175-211

Clone: Rabbit polyclonal

Isotype: IgG

Species Reactivity: Human, Mouse, Rat, Horse, Cow, and Dog. Others not known.

Positive Control: Placenta or breast carcinoma.

Specificity: The amino acid sequence (aa 175-211) used as the immunogen for anti-TIMP3 is 100% homologous in human, cow, dog and horse, and 94% homologous in mouse and rat.

Status: RUO

<u>Catalog Number</u>	<u>Volume</u>
RA0309-C.1	0.1 ml
RA0309-C.5	0.5 ml

## **Monoclonal Ready-to-Use**

### **Actin, Alpha-Smooth Muscle; Clone 1A4 (Ready-To-Use)**

Species: Mouse Monoclonal

Clone: 1A4

Isotype: IgG2a,k

Species Reactivity: Human, Baboon, Cow, Rabbit, Mouse, Rat, Chicken.

Positive Control: Blood vessels

Specificity: This antibody recognizes the  $\alpha$ -smooth muscle form of actin. It shows no cross reaction with actin from fibroblasts (b- and g-cytoplasmic), striated muscle (a-sarcometric), and myocardium (a-myocardial). Its epitope is composed of the acetyl group and the first 4 amino acids on the N-terminal end of the peptidic chain of  $\alpha$ -smooth actin. ScyTek's 1A4 stains smooth muscle cells in vessel walls, gut wall, and myometrium. Myoepithelial cells in breast and salivary gland are also stained as they also contain this actin.

<u>Catalog Number</u>	<u>Volume</u>
A00002-0002	2 ml
A00002-0007	7 ml
A00002-0025	25 ml

### **Actin, Muscle Specific; Clone HHF35 (Ready-To-Use)**

Species: Mouse Monoclonal

Clone: HHF35

Isotype: IgG1, kappa

MW: 42kD

Species Reactivity: Human

Positive Control: Skeletal or cardiac muscle.

Specificity: This antibody is specific to  $\alpha$  and  $\gamma$  specific actin isomers from skeletal, cardiac and smooth muscle but does not recognize  $\beta$  and non-smooth muscle  $\gamma$  actin isomers. In western blot, HHF35 detects a 42kD protein extract from skeletal muscle but not from epithelial cell lines.

<u>Catalog Number</u>	<u>Volume</u>
A00001-0002	2 ml
A00001-0007	7 ml
A00001-0025	25 ml

### **Bcl-2; Clone 100/D5 (Ready-To-Use)**

Species: Mouse

Clone: 100/D5

Isotype: Mouse IgG1, Kappa

Species Reactivity: Human, Monkey. Others not tested.

Positive Control: Tonsil.

Cellular Localization: Cytoplasmic & Cell Membrane.

Specificity: Human Bcl-2  $\alpha$  is a 239 amino acid (aa) protein and human Bcl-2  $\beta$  is a 205 aa protein. The 100/D5 antibody [also known as clone Bcl-2/100 (Kren, 2004, Kaur, 2004)] recognizes both Bcl-2 isoforms (Pezzela et al, 1990).

<u>Catalog Number</u>	<u>Volume</u>
A00119-0002	2 ml
A00119-0007	7 ml
A00119-0025	25 ml

**Bcl-2; Clone 124 (Ready-To-Use)**

Species: Mouse  
 Immunogen: A synthetic peptide, aa41-54 (GAAPAPGIFSSQPG-Cys) of human Bcl-2 protein  
 Clone: 124  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Does not react with Mouse and Rat. Others not known.  
 Positive Control: Jurkat, K562, HL-60, or HeLa Cells. Tonsil or follicular lymphomas.  
 Specificity: This antibody recognizes a protein of 25-26kDa, identified as the Bcl-2 alpha oncoprotein. It shows no cross-reaction with Bcl-x or Bax protein.

<u>Catalog Number</u>	<u>Volume</u>
A00004-0002	2 ml
A00004-0007	7 ml
A00004-0025	25 ml

**Bcl-6 (Follicular Lymphoma Marker); Clone PG-B6p (Ready-To-Use)**

Species: Mouse Monoclonal  
 Clone: PG-B6p  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, rabbit, rat, swine, calf, and lamb.  
 Positive Control: Tonsil  
 Cellular Localization: Nuclear

Specificity: In normal tonsil the antibody reacts with the nuclei of centroblasts and centrocytes in germinal centers. No reactivity is observed with other germinal center cells, e.g. plasma cells, macrophages, or follicular dendritic cells. Approximately 10% of germinal center T cells are stained with the antibody. The staining pattern of normal spleen B and T cell compartments are similar to that of tonsil. A faint nuclear staining is observed in squamous epithelia in the tonsil, thymus, and skin. In tumor cells the antibody shows strong nuclear labelling of Bcl-6 protein in follicular lymphomas, diffuse large B cell lymphomas, Burkitt's lymphomas, and nodular, lymphocyte-predominant Hodgkin's disease.

<u>Catalog Number</u>	<u>Volume</u>
A00077-0002	2 ml
A00077-0007	7 ml
A00077-0025	25 ml

**CA15-3 (Ready-To-Use)**

Species: Mouse Monoclonal  
 Isotype: IgG1  
 Species Reactivity: Human  
 Positive Control: Human Breast

Specificity: Human Breast Tumor Antigen (CA15-3). No cross-reactivity with Human AFP, CEA, PAP, PSA, CA19-9, or CA125.

<u>Catalog Number</u>	<u>Volume</u>
A00078-0002	2 ml
A00078-0007	7 ml
A00078-0025	25 ml

**CA19-9; Clone 121SLE (Ready-To-Use)**

Species: Mouse  
 Clone: 121SLE  
 Isotype: IgM, Kappa  
 Species Reactivity: Human  
 Cellular Localization: Luminal surface and cytoplasm.  
 Specificity: CA19-9, a carbohydrate epitope expressed on a high MW (>400kDa) mucin glycoprotein, is a sialyl Lewis structure which is synthesized from type 1 blood group precursor chains and is present in individuals expressing the Lewis and/or Lewis blood group antigens. In normal tissues, sialyl Lewis antigen is present in ductal epithelium of the breast, kidney, salivary gland, and sweat glands. Its expression is greatly enhanced in serum as well as in the majority of tumor cells in gastrointestinal (GI) carcinomas, including adenocarcinomas of the stomach, intestine, and pancreas. Preoperative elevated CA19-9 levels in patients with stage I pancreatic carcinoma decrease to normal values following surgery. When used serially, CA19-9 can predict recurrence of disease prior to radiographic or clinical findings.

<u>Catalog Number</u>	<u>Volume</u>
A00107-0002	2 ml
A00107-0007	7 ml
A00107-0025	25 ml

**Carcinoembryonic Antigen, Pan (CEA); Clone COL-1 (Ready-To-Use)**

Species: Mouse  
 Immunogen: BALB/c mice were injected with an extract of human colon carcinoma.  
 Clone: COL-1  
 Isotype: IgG1 Kappa  
 Species Reactivity: Human. Others not tested.  
 Positive Control: Colon Adenocarcinoma.  
 Specificity: This antibody labels the CEA-positive glycocalyx surface of gastrointestinal cells and is useful for the identification of colon carcinomas.

<u>Catalog Number</u>	<u>Volume</u>
A00135-0002	2 ml
A00135-0007	7 ml
A00135-0025	25 ml

**CD10, CALLA (Neutral Endopeptidase); Clone 56C6 (Ready-To-Use)**

Species: Mouse  
 Immunogen: Recombinant human CD10 protein fragment.  
 Clone: 56C6  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Rat. Others not tested.  
 Positive Control: Kidney, small intestine, or tonsil.  
 Specificity: Recognizes a 100kDa glycoprotein, identified as CD10, also known as Common Acute Lymphatic Leukemia Antigen (CALLA).

<u>Catalog Number</u>	<u>Volume</u>
A00091-0002	2 ml
A00091-0007	7 ml
A00091-0025	25 ml

**CD15 / FUT4; Clone Leu-M1 (Ready-To-Use)**

Species: Mouse  
 Immunogen: U937 histiocytic cell line  
 Clone: Leu-M1  
 Isotype: IgM, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: U937 cells, Reed-Sternberg's cells in Hodgkin's lymphoma.  
 Specificity: This antibody reacts with a 220 kDa protein, CD15 / FUT4 expressed on Reed-Sternberg cells.

<u>Catalog Number</u>	<u>Volume</u>
A00151-0002	2 ml
A00151-0007	7 ml
A00151-0025	25 ml

**CD20, B-Cell; Clone L26 (Ready-To-Use)**

Species: Mouse Monoclonal  
 Clone: L26  
 Isotype: IgG2a,k  
 MW: 33 kD and 30 kD  
 Species Reactivity: Human  
 Positive Control: Tonsil

Specificity: This antibody is specific to a 33 kD polypeptide present on the majority of B cells in peripheral blood and lymphoid tissue and also with a minor component of 30 kD. No reactivity with other haematopoietic cells has been observed.

<u>Catalog Number</u>	<u>Volume</u>
A00003-0002	2 ml
A00003-0007	7 ml
A00003-0025	25 ml

**CD23, B-Cell; Clone MHM6**

Species: Mouse  
 Clone: MHM6  
 Isotype: IgG1, Kappa

Specificity: In lymphoid tissue, the antibody labels a variable proportion of mantle zone lymphocytes and a fraction of dendritic reticulum cells. In lymph nodes with progressive germinal centre transformation, the number and staining intensity of small follicular lymphocytes are increased. Essentially no staining is seen on splenic marginal zone lymphocytes.

The CD23 antigen is expressed on neoplastic cells from cases of B-Cell chronic lymphocytic leukemia and some cases of centroblastic/centrocytic lymphoma, but not in other types of lymphoid neoplasms.

<u>Catalog Number</u>	<u>Volume</u>
A20081	2 ml
A00081	6 ml
A00081.0025	25 ml

**CD30, Ki-1 Antigen; Clone Ber-H2 (Ready-To-Use)**

Species: Mouse  
 Immunogen: Cancer cell line established from a patient with Hodgkin's disease of T-cell lineage  
 Clone: Ber-H2  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Hodgkin's lymphoma  
 Specificity: Recognizes a single chain glycoprotein of 105/120kDa, identified as CD30/Ki-1. This Mab distinguishes large cell lymphomas derived from activated lymphoid cells from histiocytic malignancies and lymphomas derived from resting and precursor lymphoid cells or from anaplastic carcinomas. umor cells of a majority of anaplastic large cell lymphomas, and by a varying proportion of activated T and B cells.

<u>Catalog Number</u>	<u>Volume</u>
A00016-0002	2 ml
A00016-0007	7 ml
A00016-0025	25 ml

**CD31, Endothelial Cell; Clone JC/70A (Ready-To-Use)**

Species: Mouse  
 Immunogen: Membrane preparation of a spleen from a patient with hairy cell leukemia.  
 Clone: JC/70A  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Cynomolgus Monkey, and Rabbit. Others not known.  
 Positive Control: Tonsil, Angiosarcoma.  
 Specificity: Anti-CD31 has shown to be highly specific and sensitive for vascular endothelial cells. Staining of nonvascular tumors (excluding hematopoietic neoplasms) is rare. Anti-CD31 reacts with normal, benign, and malignant endothelial cells which make up blood vessel lining.

<u>Catalog Number</u>	<u>Volume</u>
A00009-0002	2 ml
A00009-0007	7 ml
A00009-0025	25 ml

**CD31; Clone C31.3 (Ready-To-Use)**

Species: Mouse  
 Clone: C31.3  
 Isotype: Mouse IgG1, Kappa  
 Species Reactivity: Human.  
 Positive Control: Tonsil, Liver, Kidney.  
 Specificity: The CD31 antibody (clone C31.3 or PECAM-1) is widely used as a pan-endothelial cell marker to demonstrate the presence of endothelial cells in tissue sections by immunohistochemistry. The CD31 (PECAM-1) antibody reacts with normal, benign, and malignant endothelium.

<u>Catalog Number</u>	<u>Volume</u>
A00126-0002	2 ml
A00126-0007	7 ml
A00126-0025	25 ml



**CD31; Clone C31.7 (Ready-To-Use)**

Species: Mouse

Clone: C31.7

Isotype: IgG1, Kappa

Species Reactivity: Human.

Cellular Localization: Primarily membrane.

Specificity: This antibody recognizes a 100kDa glycoprotein in endothelial cells and 130kDa in platelets. This antibody reacts with endothelial cells in normal tissues and in benign and malignant proliferations. In cryostat sections and blood smears the antibody also stains megakaryocytes, platelets and occasionally plasma cells. It reacts weakly with mantle zone B cells, peripheral T cells, and neutrophils. Antibody to CD31 is of value in the study of benign and malignant vascular tumors. Staining for CD31 has also been used to measure angiogenesis, which reportedly predicts tumor recurrence.

<u>Catalog Number</u>	<u>Volume</u>
A00110-0002	2 ml
A00110-0007	7 ml
A00110-0025	25 ml

**CD34, Endothelial Cell; Clone QBEnd/10 (Ready-To-Use)**

Species: Mouse

Immunogen: Detergent solubilized vesicular suspension prepared from human term placenta

Clone: QBEnd/10

Isotype: IgG1, kappa

Species Reactivity: Human, Cynomolgus Monkey, Rhesus Monkey. Does not react with rat, sheep, cow and dog. Others not known.

Positive Control: KG-1 cells, Tonsil, or Angiosarcoma

Specificity: This antibody recognizes a single chain, transmembrane, heavily glycosylated protein of 90-120kDa, which is identified as CD34. On the basis of differential sensitivity to degradation by specific enzymes, epitopes of monoclonal antibodies to CD34 are classified into three main categories, class I, class II and class III. It is a class II antibody whose epitope is resistant to neuraminidase but sensitive to glycoprotease and chymopapain. Anti-CD34 labels > 85% of angiosarcoma and Kaposi's sarcoma, but with a lower specificity.

<u>Catalog Number</u>	<u>Volume</u>
A00070-0002	2 ml
A00070-0007	7 ml
A00070-0025	25 ml

**CD43 (T-Cell); Clone DF-T1 (Ready-To-Use)**

Species: Mouse

Immunogen: Myeloblastic KG1 cells

Clone: DF-T1

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: Paracortex in a tonsil or a reactive lymph node.

Specificity: This antibody recognizes a cell surface glycoprotein of 95/115/135kDa (depending upon the extent of glycosylation), identified as CD43 [Workshop IV].

<u>Catalog Number</u>	<u>Volume</u>
A00082-0002	2 ml
A00082-0007	7 ml
A00082-0025	25 ml

**CD45, Leucocyte Common Antigen (LCA); Clones PD7/26 & 2B11 (Ready-To-Use)**

Species: Mouse

Immunogen: Isolated neoplastic cells from T-cell lymphoma (2B11); human peripheral blood lymphocytes maintained in T-cell growth factor (PD7/26).

Clone: 2B11 &amp; PD7/26

Isotype: IgG1, kappa (2B11); IgG1, kappa (PD7/26).

Species Reactivity: Human. Others not known.

Positive Control: Ramos, U-698, or GA-10 cells. Tonsil.

Specificity: This antibody recognizes the CD45 leukocyte common antigen (LCA) family.

<u>Catalog Number</u>	<u>Volume</u>
A00017-0002	2 ml
A00017-0007	7 ml
A00017-0025	25 ml

**CD45; Clone 2B11 (Ready-To-Use)**

Species: Mouse

Clone: 2B11

Isotype: Mouse IgG1, Kappa

Species Reactivity: Human.

Positive Control: Tonsil.

Specificity: This antibody is specific for hematopoietic cells, including basophils, granulocytes, lymphocytes, macrophages / histiocytes, mast cells, monocytes, plasma cells; NOT mature red blood cells and their immediate progenitors, platelets or megakaryocytes, Dendritic cells, medullary thymocytes.

<u>Catalog Number</u>	<u>Volume</u>
A00129-0002	2 ml
A00129-0007	7 ml
A00129-0025	25 ml

**CD45RA (LCA); Clone 158-4D3 (Ready-To-Use)**

Species: Mouse

Clone: 158-4D3

Isotype: Mouse IgG2a, Kappa

Species Reactivity: Human. Others not tested.

Positive Control: Tonsil, Spleen.

Specificity: The CD45RA 158-4D3 antibody clone reacts with the ABC and BC isoforms (Schlossman et al, 1995). CD45RA has a molecular weight of 205-220 kDa.

<u>Catalog Number</u>	<u>Volume</u>
A00123-0002	2 ml
A00123-0007	7 ml
A00123-0025	25 ml

**CD45RB; Clone PD7/26 (Ready-To-Use)**

Species: Mouse

Clone: PD7/26

Isotype: Mouse IgG1

Species Reactivity: Human.

Positive Control: Tonsil.

Specificity: This antibody is specific for hematopoietic cells, including basophils, granulocytes, lymphocytes, macrophages/histiocytes, mast cells, monocytes, plasma cells; NOT mature red blood cells and their immediate progenitors, platelets or megakaryocytes, dendritic cells, medullary thymocytes. CD45RB is highly expressed on memory B cells and plasmablasts but not on naïve B cells, Langerhans cells and some T cells, B cells, monocytes, macrophages, granulocytes.

<u>Catalog Number</u>	<u>Volume</u>
A00130-0002	2 ml
A00130-0007	7 ml
A00130-0025	25 ml

**CD45RO, T-Cell; Clone UCHL1 (Ready-To-Use)**

Species: Mouse Monoclonal

Clone: UCHL1

Isotype: IgG2a,k

Species Reactivity: Human, Rhesus Monkey. Does not react with Rat.

Positive Control: Tonsil or Lymph Node.

Specificity: This antibody reacts with a 180 kD glycoprotein of CD45 family, occurring on most thymocytes and activated T cells but only on the portion of the resting T cells. It reacts with most thymocytes, a subpopulation of resting cells within both the CD4 and CD8 subsets and mature activated T cells. This antibody shows no reactivity with normal B or natural killer cells, but reacts with granulocytes and monocytes. Though this antibody is useful to identify T-cell lymphomas and leukemia, rare staining with B cell lymphomas reported.

<u>Catalog Number</u>	<u>Volume</u>
A00024-0002	2 ml
A00024-0007	7 ml
A00024-0025	25 ml

**CD5 (Mantel Cell Lymphoma Marker); 4C7**

Species: Mouse Monoclonal

Clone: 4C7

Isotype: IgG1

Species Reactivity: Human

Specificity: This antibody recognizes a 67kD transmembrane protein, which is identified as CD5. The CD5 antigen is found on 95% of thymocytes and 72% of peripheral blood lymphocytes. In lymph nodes, the main reactivity is observed in T cells. CD5 is expressed by many T cell leukemia, lymphomas, and activated T cells. Occasionally, CD5 antigen is also expressed on a subset of B cells. Mantle cell lymphomas (same as diffuse centrocytic lymphomas) are CD5+ while the follicle center cell lymphoma are CD5-.

<u>Catalog Number</u>	<u>Volume</u>
A20090	2 ml
A00090	6 ml
A00090.0025	25 ml
A00090.050	50 ml

**CD56; Clone 123C3 (Ready-To-Use)**

Species: Mouse

Clone: 123C3

Isotype: Mouse IgG1, Kappa

Species Reactivity: Human.

Positive Control: Tonsil, Neuroblastoma, Pancreatic Islet cells.

Specificity: This antibody recognizes two proteins (185kDa & 145kDa), identified as two isoforms of neural cell adhesion molecule (NCAM/CD56). It is used as a tumor marker in various cancers such as NK lymphomas and Merkel cell carcinoma. NCAM is expressed on most neuroectodermal derived lines, tissues, and neoplasms such as retinoblastoma, medulloblastoma, astrocytoma, and neuroblastoma. It is also expressed on some mesodermally derived tumors such as rhabdomyosarcoma and also on natural killer cells.

<u>Catalog Number</u>	<u>Volume</u>
A00121-0002	2 ml
A00121-0007	7 ml
A00121-0025	25 ml

**CD57 (HNK-1); Clone NK-1 (Ready-To-Use)**

Species: Mouse

Clone: NK-1

Isotype: Mouse IgM, Kappa

Species Reactivity: Human.

Positive Control: Tonsil, spleen, lymph node.

Specificity: The NK1 antibody clone recognizes the glycoepitope referred to as both CD57 and HNK1.

<u>Catalog Number</u>	<u>Volume</u>
A00117-0002	2 ml
A00117-0007	7 ml
A00117-0025	25 ml

**CD74; Clone LN2 (Ready-To-Use)**

Species: Mouse

Clone: LN2

Isotype: IgG1,k

MW: 35 kD

Species Reactivity: Human

Specificity: This antibody reacts with 35 kD antigen present on the nuclear membrane protein related to the invariant chain of the HLA-Dr antigen. This antibody reacts with the germinal center and mantle zone B lymphocytes, interdigitating histiocytes in T cell zones and mononuclear cells and Reed-Sternberg cells in Hodgkin's disease.

<u>Catalog Number</u>	<u>Volume</u>
A00048-0002	2 ml
A00048-0007	7 ml
A00048-0025	25 ml

**CD75 (B-Cell Marker); Clone LN1 (Ready-To-Use)**

Species: Mouse

Immunogen: Nuclei from pokeweed mitogen-stimulated peripheral blood lymphocytes.

Clone: LN1

Isotype: IgM, Kappa.

Species Reactivity: Human, Others-not known

Positive Control: HeLa or Daudi Cells. Germinal center B-cells in a lymph node or tonsil. Use LN1's ability to stain surface of erythrocytes as an internal positive control.

Specificity: Recognizes a neuraminidase-sensitive sialoprotein (CDw75), present on cell membrane and cytoplasm of germinal center B-cells and derived lymphomas. This antibody reacts with RBC precursors of bone marrow, ductal, and ciliated epithelial cells of kidney, breast, prostate, pancreas, lung, and with glioblastomas, astrocytomas, and Reed Sternberg cells in lymphocyte predominant Hodgkin's disease.

<u>Catalog Number</u>	<u>Volume</u>
A00047-0002	2 ml
A00047-0007	7 ml
A00047-0025	25 ml

**CDX2; Clone EP25 (Ready-To-Use)**

Species: Rabbit

Immunogen: Rabbits were injected with a synthetic peptide corresponding to residues near the C-terminus of human CDX-2.  
Clone: EP25

Isotype: Rabbit IgG

Species Reactivity: Human

Positive Control: Colon for normal tissue and colon adenocarcinoma for abnormal tissue.

Specificity: CDX-2 expression is restricted to nuclear staining in positive cells.

<u>Catalog Number</u>	<u>Volume</u>
A00147-0002	2 ml
A00147-0007	7 ml
A00147-0025	25 ml

**c-erbB-2 Oncoprotein; Clone SP3**

Species: Rabbit

Clone: SP3

Mol. Weight: 185kD

Isotype: IgG

Species Reactivity: Human. Others not tested.

Positive Control: Breast carcinoma.

Cellular Localization: Cell membrane.

Specificity: c-erbB-2 is a receptor tyrosine of the c-erbB family. It is closely related in structure to the epidermal growth factor receptor. C-erbB-2 oncoprotein is detectable in a proportion of breast and other adenocarcinomas, as well as transitional cell carcinomas.

<u>Catalog Number</u>	<u>Volume</u>
A20100	2 ml
A00100	6 ml
A00100.0025	25 ml

**Chromogranin A; Clone A3**

Species: Mouse Monoclonal

Clone: A3

Isotype: IgG2b,k

Species Reactivity: Human

Specificity: Chromogranin A is a 439 amino acid protein present in secretory granules of a wide variety of endocrine cells and neurons. A positive staining is seen in the secretory granules of parathyroid, adrenal medulla, anterior pituitary gland and Langerhans islets of the pancreas. This antibody stains a variety of neuroendocrine tumors.

<u>Catalog Number</u>	<u>Volume</u>
A20097	2 ml
A00097	6 ml
A00097.0025	25 ml

**Chromogranin A; Clones LK2H10 & PHE5 (Ready-To-Use)**

Species: Mouse

Immunogen: Human pheochromocytoma (LK2H10 & PHE5).

Clone: LK2H10 & PHE2

Isotype: IgG1, Kappa (Both)

Species Reactivity: Human, Monkey, Pig, Mouse and Rat. Others-not known

Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.

Specificity: Chromogranin A is present in neuroendocrine cells throughout the body, including the neuroendocrine cells of the large and small intestine, adrenal medulla and pancreatic islets. It is an excellent marker for carcinoid tumors, pheochromocytomas, paragangliomas, and other neuroendocrine tumors.

<u>Catalog Number</u>	<u>Volume</u>
A00160-0002	2 ml
A00160-0007	7 ml
A00160-0025	25 ml

**Cyclin D1; Clone DCS-6 (Ready-To-Use)**

Species: Mouse

Designation: Mouse Monoclonal

Clone: DCS-6

Isotype: IgG2a, Kappa

Species Reactivity: Human.

Cellular Localization: Nuclear.

Positive Control: Mantle cell lymphoma and breast carcinoma.

Specificity: The DCS-6 antibody is specific for cyclin D1, and has been key in elucidating the function and involvement of cyclin D1 in oncogenesis. Results with this antibody have helped to show that Cyclin D1 is over expressed in many different kinds of cancer. For example, about 50-70% of mantle cell lymphomas and 40% of breast carcinomas are cyclin D1.

<u>Catalog Number</u>	<u>Volume</u>
A00111-0002	2 ml
A00111-0007	7 ml
A00111-0025	25 ml

**Cytokeratin (Pan); Clone Cocktail (Ready-To-Use)**

Specificity: This antibody cocktail reacts with keratins 4, 5, 6, 7, 8, 10, 13, 14, 15, 16, 18, and 19. Cytokeratin (Pan) differentiates epithelial tumors from non-epithelial tumors.

Species: Mouse  
Immunogen: Multiple  
Clone: Multiple  
Isotype: IgG  
Species Reactivity: Human  
Positive Control: Skin  
Cellular Localization: Cytoplasmic

<u>Catalog Number</u>	<u>Volume</u>
A00098-0002	2 ml
A00098-0007	7 ml
A00098-0025	25 ml

**Cytokeratin 10; Clone DE-K10 (Ready-To-Use)**

Species: Mouse  
Immunogen: Cytoskeletal preparation extracted from human ectocervical epithelium.  
Clone: DE-K10  
Isotype: IgG1, kappa  
Species Reactivity: Human, Dog and Cat. Others not known.  
Positive Control: Esophagus or Tonsil. A431, HeLa, MCF7 cells.  
Specificity: This antibody recognizes a protein of 56.5kDa identified as Cytokeratin 10.

<u>Catalog Number</u>	<u>Volume</u>
A00089-0002	2 ml
A00089-0007	7 ml
A00089-0025	25 ml

**Cytokeratin 19 (40 kD); Clone BA 17**

Species: Mouse Monoclonal  
Clone: BA 17  
Isotype: IgG1  
MW: 40 kD  
Species Reactivity: Human

Specificity: It is the smallest human keratin found in most simple and non-keratinizing stratified epithelia. This antigen is not present in adult intrafollicular epidermis. The antibody stains most of the epithelial cell types including ductal and glandular epithelia.

<u>Catalog Number</u>	<u>Volume</u>
A20094	2 ml
A00094	6 ml
A00094.0025	25 ml

**Cytokeratin 19; Clone A53-B/A2.26 (Ready-To-Use)**

Species: Mouse  
Clone: A53-B/A2.26 (Ks 19.1)  
Isotype: Mouse IgG2a, Kappa  
Species Reactivity: Human. Reacts weakly with mouse, rat and guinea pig Cytokeratin 19.  
Positive Control: Skin, Breast carcinoma, Colon carcinoma, Thyroid.  
Specificity: This antibody reacts with the rod domain of human Cytokeratin 19, a polypeptide of 40kDa. The antibody recognition epitope maps between amino acid 312-335. This antibody reacts with the MCF-7 cells which are known to contain Cytokeratin 19.

<u>Catalog Number</u>	<u>Volume</u>
A00122-0002	2 ml
A00122-0007	7 ml
A00122-0025	25 ml

**Cytokeratin 20; Clone EP23 (Ready-To-Use)**

Species: Rabbit  
Immunogen: Rabbits were injected with a synthetic peptide corresponding to residues near the C-terminus in human CK20 protein.  
Clone: EP23  
Isotype: Rabbit IgG  
Species Reactivity: Human  
Positive Control: Colon for normal tissue and colon cancer for abnormal tissue.  
Specificity: CK20 expression is restricted to cytoplasmic / cell surface staining in positive cells.

<u>Catalog Number</u>	<u>Volume</u>
A00146-0002	2 ml
A00146-0007	7 ml
A00146-0025	25 ml

**Cytokeratin 5,6 Cocktail; Clones EP42 & EP67 (Ready-To-Use)**

Species: Rabbit  
Designation: Rabbit Monoclonal Cocktail  
Clone: EP42 & EP67  
Isotype: IgG  
Species Reactivity: Human. Others not tested.  
Positive Control: Skin for normal tissue, Lung Squamous Cell Carcinoma or Mesothelioma for abnormal tissue.  
Specificity: Cytokeratin 5,6 is expressed in many non-keratinizing stratified squamous epithelia including: basal epithelia, hair follicles, trachea, tongue mucosa, as well as basal cells in prostate glands and myoepithelial cells in mammary glands. Cytokeratin 5,6 protein is also found in most epithelial and bispasic mesotheliomas, large cell carcinoma and pulmonary squamous cell carcinomas.

<u>Catalog Number</u>	<u>Volume</u>
A00141-0002	2 ml
A00141-0007	7 ml
A00141-0025	25 ml

**Cytokeratin 6; Clone EP67 (Ready-To-Use)**

Species: Rabbit  
 Designation: Rabbit Monoclonal  
 Clone: EP67  
 Isotype: IgG  
 Species Reactivity: Human. Others not tested.  
 Positive Control: Skin for normal tissue and Mesothelioma for abnormal tissue.  
 Specificity: Cytokeratin 6 is expressed in many non-keratinizing stratified squamous epithelia of large cell carcinoma and pulmonary squamous cell carcinomas. It can also be found on stratified epithelia including: basal layer of epidermis, the outer root sheath of hair follicles, esophagus, oral mucosa, as well as basal cells in prostate glands and myoepithelial cells in mammary glands.

<u>Catalog Number</u>	<u>Volume</u>
A00140-0002	2 ml
A00140-0007	7 ml
A00140-0025	25 ml

**Cytokeratin 7; Clone OV-TL12/30 (Ready-To-Use)**

Species: Mouse  
 Clone: OV-TL12/30  
 Isotype: IgG1  
 Species Reactivity: Human. Others not tested.  
 Positive Control: Carinoma of Ovary, Lung, Cervix or Breast.  
 Specificity: Cytokeratin 7 expression is restricted to most glandular and transitional epithelia including lung, breast, bladder and female genital tract and their adenocarcinomas, but not in most gastrointestinal epithelium, prostate, hepatocyte and squamous epithelium.

<u>Catalog Number</u>	<u>Volume</u>
A00142-0002	2 ml
A00142-0007	7 ml
A00142-0025	25 ml

**Cytokeratin 8; Clone K8/383 (Ready-To-Use)**

Species: Mouse  
 Clone: K8/383  
 Isotype: IgG1  
 Species Reactivity: Human, Rat. Others not tested.  
 Positive Control: MCF-7 or A431 cells. Human Skin, Colon, Lung or Breast carcinoma.  
 Specificity: Cytokeratin 8 Antibody belongs to the type II (or B or Basic) subfamily of high molecular weight Cytokeratins and exists in combination with Cytokeratin 18. Cytokeratin 8 is primarily found in the non-squamous epithelia and is present in a majority of adenocarcinomas and ductal carcinomas. It is absent in squamous cell carcinomas.

<u>Catalog Number</u>	<u>Volume</u>
A00136-0002	2 ml
A00136-0007	7 ml
A00136-0025	25 ml

**Cytokeratin, High Molecular Weight; Clone 34bE12**

Species: Mouse Monoclonal  
 Clone: 34bE12  
 Isotype: IgG1k  
 MW: 68, 58, 56.5 and 50 kD  
 Species Reactivity: Human, Horse, Monkey, Rabbit  
 Positive Control: Any tissue containing squamous epithelium.

Specificity: This antibody stains squamous, ductal and other complex epithelium. This antibody reacts with squamous cell and ductal carcinomas of the breast, pancreas, bile duct and salivary gland, in addition to transitional cell carcinomas of the bladder and nasopharynx, thymomas, and epithelioid mesotheliomas. Mesenchymal tissues such as blood vessel, smooth muscle, skeletal muscle, dermis and nervous tissue are not stained.

<u>Catalog Number</u>	<u>Volume</u>
A20071	2 ml
A00071	6 ml
A00071.0025	25 ml

**Cytokeratin, Multi (Acidic); Clone AE1 (Ready-To-Use)**

Species: Mouse Monoclonal  
 Clone: AE-1  
 Isotype: IgG1  
 MW: 56.5, 50, 50', 48 and 40 kD  
 Species Reactivity: Human, Monkey, Cow, Rabbit, Mouse, Rat, Chicken. Others not tested.  
 Positive Control: Human epidermal keratin or carcinoma. HT29 cells.

Specificity: Monoclonal antibody AE1 recognizes the 56.5, 50, 50', 48, and 40kDa keratins of the acidic subfamily. Twenty human keratins are resolved with two-dimensional gel electrophoresis into acidic (pI<5.7) and basic (pI>6.0) subfamilies. The acidic keratins have molecular weights of 56.5, 55, 51, 50, 50', 48, 46, 45, and 40kDa.

<u>Catalog Number</u>	<u>Volume</u>
A00051-0002	2 ml
A00051-0007	7 ml
A00051-0025	25 ml

**Cytokeratin, Multi (Basic); Clone AE-3 (Ready-To-Use)**

Species: Mouse  
 Immunogen: Human epidermal keratin  
 Clone: AE-3  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Monkey, Cow, Dog, Rabbit, Mouse, Rat, Chicken. Others not known.  
 Positive Control: Epithelial cells, skin or adenocarcinomas.  
 Specificity: This antibody recognizes basic (Type II or HMW) cytokeratins, which include 67kDa (CK1); 64kDa (CK3); 59kDa (CK4); 58kDa (CK5); 56kDa (CK6); 52kDa (CK8).

<u>Catalog Number</u>	<u>Volume</u>
A00052-0002	2 ml
A00052-0007	7 ml
A00052-0025	25 ml

**Cytokeratin, Pan; Clones AE1 & AE3 (Ready-To-Use)**

Species: Mouse  
 Immunogen: Human epidermal keratin  
 Clone: AE-1 & AE-3  
 Isotype: IgG1, kappa (AE-1); IgG1, kappa (AE-3)  
 Species Reactivity: Human, Monkey, Cow, Dog, Rabbit, Mouse, Rat, Chicken. Others not known.  
 Positive Control: Skin, Adeno- or Squamous carcinomas.  
 Specificity: This antibody cocktail recognizes acidic (Type I or LMW) and basic (Type II or HMW) cytokeratins, which include 67kDa (CK1); 64kDa (CK3); 59kDa (CK4); 58kDa (CK5); 56kDa (CK6); 52kDa (CK8); 56.5kDa (CK10); 50kDa (CK14); 50kDa (CK15); 48kDa (CK16); 40kDa (CK19). This antibody stains cytokeratins present in normal and abnormal human tissues and has shown high sensitivity in the recognition of epithelial cells and carcinomas.

<u>Catalog Number</u>	<u>Volume</u>
A00152-0002	2 ml
A00152-0007	7 ml
A00152-0025	25 ml

**Desmin, Clone D33 (Ready-To-Use)**

Species: Mouse  
 Immunogen: Proteins from human Leiomyoma.  
 Clone: D33  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Rat, Mouse, Hamster, Chicken.  
 Others not known.  
 Positive Control: Muscle, Uterus, Leiomyosarcoma or SJRH30 cells.  
 Specificity: Desmin, Clone D33 detects cells of normal smooth, skeletal, and cardiac muscles. This antibody reacts with leiomyomas, leiomyosarcoma, rhabdomyomas, rhabdomyosarcoma, and perivascular cells of glomus tumors of the skin.

<u>Catalog Number</u>	<u>Volume</u>
A00007-0002	2 ml
A00007-0007	7 ml
A00007-0025	25 ml

**Epithelial Membrane Antigen; Clone E29 (Ready-To-Use)**

Species: Mouse  
 Immunogen: Delipidated extract of human milk fat globule membranes  
 Clone: E29  
 Isotype: IgG2a, kappa  
 Species Reactivity: Human. Reacts moderately with Pig and Dog. Others not known.  
 Positive Control: MCF-7 or MDA-231 cells. Breast or colon carcinoma.  
 Specificity: In Western blotting, this antibody recognizes proteins in a MW range of 265-400kDa, identified as different glycoforms of MUC1. This antibody reacts with the DTRP epitope within the tandem repeats. In immunohistochemical assays, it superbly stains routine formalin/paraffin carcinoma tissues. An antibody to MUC1 is useful as a pan-epithelial marker for detecting early metastatic loci of carcinoma in bone marrow or liver.

<u>Catalog Number</u>	<u>Volume</u>
A00008-0002	2 ml
A00008-0007	7 ml
A00008-0025	25 ml

**Estrogen Receptor; Clone 11D5 (Ready-To-Use)**

Species: Mouse  
 Clone: 11D5  
 Isotype: IgG1, Kappa  
 Species Reactivity: Human  
 Positive Control: Breast Carcinoma.  
 Cellular Localization: Nuclei.

Specificity: This antibody is specific to estrogen receptor, which is associated with superior prognosis and a better response to endocrine therapy. The nuclei of the estrogen receptor positive cells stain very strongly with this antibody, without any staining in the cytoplasm. However, on cryostat sections a positive staining of estrogen receptor in the nucleus as well as cytoplasm can be seen. This antibody can be used for gel shift assay, immunoprecipitation, immunohistochemistry and western blotting.

<u>Catalog Number</u>	<u>Volume</u>
A00106-0002	2 ml
A00106-0007	7 ml
A00106-0025	25 ml

**Estrogen Receptor; Clone ERa078 (Ready-To-Use)**

Species: Mouse  
 Clone: ERa078  
 Isotype: Mouse IgG1, Kappa  
 Species Reactivity: Human.  
 Positive Control: Breast carcinoma.  
 Specificity: This antibody is specific for estrogen receptor.

<u>Catalog Number</u>	<u>Volume</u>
A00128-0002	2 ml
A00128-0007	7 ml
A00128-0025	25 ml

**GFAP; Clone ASTRO/789 (Ready-To-Use)**

Species: Mouse  
 Immunogen: Recombinant GFAP protein  
 Clone: ASTRO/789  
 Isotype: IgG1  
 Species Reactivity: Human, Mouse, Rat, Cow, Pig, Rabbit, and Chicken. Others not known.  
 Positive Control: Brain or Astrocytoma.  
 Specificity: This antibody recognizes a protein of ~50kDa which is identified as Glial Fibrillary Acidic Protein (GFAP). It shows no cross-reaction with other intermediate filament proteins.

<u>Catalog Number</u>	<u>Volume</u>
A00158-0002	2 ml
A00158-0007	7 ml
A00158-0025	25 ml

**Glial Fibrillary Acidic Protein (GFAP); Clone GA-5 (Ready-To-Use)**

Species: Mouse  
 Immunogen: Porcine Spinal Chord  
 Mol. Weight: 51-52kDa  
 Clone: GA-5  
 Isotype: IgG1  
 Species Reactivity: Human, Pig, Rat, and Chicken. Others not tested.  
 Positive Control: IMR5, Brain, or Astrocytoma.  
 Cellular Localization: Cytoplasmic.

Specificity: Glial Fibrillary Acidic Protein (GFAP) is specific to astrocytes and ependymal cells of the central nervous system. This product effectively stains astrocytes, glial cells, ependymal cells and their associated tumors.

<u>Catalog Number</u>	<u>Volume</u>
A00102-0002	2 ml
A00102-0007	7 ml
A00102-0025	25 ml

**Hairy Cell Leukemia; Clone DBA.44**

Species: Mouse  
 Clone: DBA.44  
 Isotype: IgM, Kappa  
 Species Reactivity: Human

Specificity: This antibody reacts with over 97% of hairy cell leukaemia as well as about 35% of high grade B cell lymphomas. It reacts with B lymphocytes, cells of mantle zone and immunoblasts outside the lymphoid tissues.

<u>Catalog Number</u>	<u>Volume</u>
A20015	2 ml
A00015	6 ml
A00015.0025	25 ml

**Insulin; Clone 2D11-H5 (Ready-To-Use)**

Species: Mouse  
 Clone: 2D11-H5  
 Isotype: Mouse IgG1, Kappa  
 Species Reactivity: Human, Pig, Cow.  
 Positive Control: Pancreatic tissue.  
 Specificity: Detects insulin and insulin producing cells.

<u>Catalog Number</u>	<u>Volume</u>
A00114-0002	2 ml
A00114-0007	7 ml
A00114-0025	25 ml

**Kappa, Light Chain; Clone KLC264 (Ready-To-Use)**

Species: Mouse  
 Immunogen: Recombinant human Ig kappa chain  
 Clone: KLC264  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T, Raji or hPBL cells. Tonsil or Spleen.  
 Specificity: This monoclonal antibody is specific to the kappa light chain of immunoglobulins and shows no cross-reaction with the lambda light chain or any of the five heavy chains.

<u>Catalog Number</u>	<u>Volume</u>
A00156-0002	2 ml
A00156-0007	7 ml
A00156-0025	25 ml

**Kappa; Clone L1C1 (Ready-To-Use)**

Species: Mouse  
 Clone: L1C1  
 Isotype: Mouse IgG1, Kappa  
 Species Reactivity: Human.  
 Positive Control: Tonsil.  
 Specificity: The kappa light chain antibody recognizes the kappa light chain of immunoglobulin.

<u>Catalog Number</u>	<u>Volume</u>
A00113-0002	2 ml
A00113-0007	7 ml
A00113-0025	25 ml

**Lambda Light Chain; Clone LcN-2 (Ready-To-Use)**

Species: Mouse  
 Immunogen: Purified human IgG  
 Clone: LcN-2  
 Isotype: IgG2a, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.  
 Specificity: This monoclonal antibody is specific to the lambda light chain of immunoglobulins and shows no cross-reaction with the kappa light chain or any of the five heavy chains.

<u>Catalog Number</u>	<u>Volume</u>
A00155-0002	2 ml
A00155-0007	7 ml
A00155-0025	25 ml

**Laminin; Clone 4C7**

Species: Mouse Monoclonal  
 Clone: 4C7  
 Isotype: IgG2a  
 MW: 100 kD  
 Species Reactivity: Human. Not reactive with mouse or rat.

Specificity: The basement membrane (BM) is a component of the extracellular matrix and is composed of a variety of proteins, of which laminin is the most prevalent. Laminin is synthesized by fibroblasts in epithelial and endothelial cells, as well as smooth muscle cells. This protein normally contributes to the regulation of cell growth, cell attachment to the BM and to the morphology of cells and their migration.  
 The monoclonal labels trophoblastic cells of the villous trophoblastic epithelium in the placenta, and epithelia and BM in normal tonsil. Extensive studies of a variety of invasive and non-invasive carcinomas, including their benign counterparts, demonstrated a lack of immunoreactivity for laminin in the majority of invasive carcinomas. Benign or non-invasive lesions showed intact BM.

<u>Catalog Number</u>	<u>Volume</u>
A20079	2 ml
A00079	6 ml
A00079.0025	25 ml



**MART-1; Clone M2-7C10 (Ready-To-Use)**

Species: Mouse  
 Clone: M2-7C10  
 Isotype: Mouse IgG2b, Kappa  
 Species Reactivity: Human. Clone M2-7C10 does not react with mouse or rat.  
 Positive Control: Metastatic melanoma in lymph nodes.  
 Specificity: The clone M2-7C10 MART-1 antibody labels melanomas and other tumors showing melanocyte differentiation.

<u>Catalog Number</u>	<u>Volume</u>
A00115-0002	2 ml
A00115-0007	7 ml
A00115-0025	25 ml

**MART-1; Clone M2-9E2 (Ready-To-Use)**

Species: Mouse  
 Clone: M2-9E2  
 Isotype: Mouse IgG2b, Kappa  
 Species Reactivity: Human, Mouse, Rat.  
 Positive Control: Metastatic melanoma in lymph nodes.  
 Specificity: The clone M2-9E2 MART-1 antibody labels melanomas and other tumors showing melanocyte differentiation.

<u>Catalog Number</u>	<u>Volume</u>
A00116-0002	2 ml
A00116-0007	7 ml
A00116-0025	25 ml

**MART-1; Clones M2-7C10 & M2-9E3 (Ready-To-Use)**

Species: Mouse  
 Clones: M2-7C10 & M2-9E3  
 Isotype: Mouse IgG2b, kappa  
 Species Reactivity: Human.  
 Positive Control: Human Melanoma.  
 Specificity: MART-1 has been shown to be a very specific marker for melanomas.

<u>Catalog Number</u>	<u>Volume</u>
A00133-0002	2 ml
A00133-0007	7 ml
A00133-0025	25 ml

**Melanoma Associated Antigen; Clone KBA.62 (Ready-To-Use)**

Species: Mouse  
 Immunogen: Human KAL cells derived from lymph node metastasis of malignant melanoma  
 Clone: KBA.62  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Melanoma  
 Cellular Localization: Cell Surface  
 Specificity: KBA.62 is a novel anti-melanoma antibody. It reacts positively against melanocytic tumors but not against other tumors, thus demonstrating specificity and sensitivity. Moreover, it reacts positively against junctional nevus cells but not intradermal nevi, and against fetal melanocytes but not normal adult melanocytes.

<u>Catalog Number</u>	<u>Volume</u>
A00153-0002	2 ml
A00153-0007	7 ml
A00153-0025	25 ml

**Melanoma; Clone HMB45 (Ready-To-Use)**

Species: Mouse Monoclonal  
 Clone: HMB45  
 Isotype: IgG1 / Kappa  
 Species Reactivity: Human. Does not react with dog and rat.  
 Positive Control: Melanoma

Specificity: By immunohistochemistry, it specifically recognizes a protein in melanocytes and melanomas. Biochemical nature of its antigen is yet not fully characterized. This antibody reacts with junctional and blue nevus cells and variably with fetal and neonatal melanocytes. Intradermal nevi, normal adult melanocytes, and non-melanocytic cells are negative. It does not stain tumor cells of epithelial, lymphoid, glial, or mesenchymal origin.

<u>Catalog Number</u>	<u>Volume</u>
A00019-0002	2 ml
A00019-0007	7 ml
A00019-0025	25 ml

**Melanoma; Pan (Ready-To-Use)**

Species: Mouse  
 Clones: MART-1; Clone M2-7C10, MART-1; Clone M2-9E3, Tyrosinase; Clone T311, Melanoma: HMB45.  
 Isotype: Mouse IgG1  
 Species Reactivity: Human.  
 Positive Control: Human Melanoma  
 Specificity: Melanoma; Pan is a broad spectrum marker for metastatic melanoma.

<u>Catalog Number</u>	<u>Volume</u>
A00134-0002	2 ml
A00134-0007	7 ml
A00134-0025	25 ml

**MIC2 Gene Protein, CD99; Clone HO36-1.1 (Ready-To-Use)**

Species: Mouse Monoclonal  
 Clone: H036-1.1  
 Isotype: IgM  
 Species Reactivity: Human, Rat, Others not tested.  
 Positive Control: Pancreas or Ewing's sarcoma.  
 Cellular Localization: Cell Membrane.

Specificity: This antibody reacts with the MIC2 gene products expressed on the cell membrane of lymphocytes, cortical thymocytes, Langerhans' islet cells, granulosa cells of the ovary and Sertoli cells of the testis. This antibody reacts strongly with Ewing's Sarcoma and peripheral neuroectodermal tumors.

<u>Catalog Number</u>	<u>Volume</u>
A00044-0002	2 ml
A00044-0007	7 ml
A00044-0025	25 ml

**MSH6; Clone EP49 (Ready-To-Use)**

Species: Rabbit  
 Immunogen: Rabbits were injected with a synthetic peptide corresponding to residues at the N-terminus in human MSH6 protein.  
 Clone: EP49  
 Isotype: Rabbit IgG  
 Species Reactivity: Human  
 Positive Control: Colon for normal tissue and colon adenocarcinoma for abnormal tissue.  
 Specificity: MSH6 is restricted to nuclear staining in positive cells.

<u>Catalog Number</u>	<u>Volume</u>
A00149-0002	2 ml
A00149-0007	7 ml
A00149-0025	25 ml

**MUC5AC (Gastric Mucin); Clone 45M1 (Ready-To-Use)**

Species: Mouse  
 Clone: 45M1  
 Isotype: Mouse IgG1, Kappa  
 Species Reactivity: Human, Monkey, Cat, Chicken, Hedgehog, Mouse, Pig, Rabbit, Rat. Does not react with cow.  
 Positive Control: Stomach.  
 Specificity: MUC5AC is expressed in airway and gastric epithelial cells and highly expressed in colorectal carcinomas.

<u>Catalog Number</u>	<u>Volume</u>
A00124-0002	2 ml
A00124-0007	7 ml
A00124-0025	25 ml

**Napsin A; Clones NAPSA/1238 & NAPSA/1239 (Ready-To-Use)**

Species: Mouse  
 Immunogen: Recombinant human Napsin-A protein fragment (aa 189-299). Exact sequence is proprietary.  
 Clones: NAPSA/1238 & NAPSA/1239  
 Isotype: IgG1, Kappa  
 Species Reactivity: Human. Others not tested.  
 Positive Control: Lung adenocarcinoma.  
 Specificity: This antibody is specific for a pepsin-like aspartic proteinase identified as Napsin A.

<u>Catalog Number</u>	<u>Volume</u>
A00131-0002	2 ml
A00131-0007	7 ml
A00131-0025	25 ml

**Neurofilament; Clone 2F11 (Ready-To-Use)**

Species: Mouse  
 Clone: 2F11  
 Isotype: IgG1, Kappa  
 Species Reactivity: Human, Rabbit, Cat, Mouse and Rat. Does not react with dog.  
 Positive Control: Brain

Specificity: This antibody stains neurons (axons) of the central and peripheral nervous system. It is useful for the identification of tumors with neuronal differentiation viz. Neuroblastomas, Ganglioneuromas, Pheochromocytomas and Esthesioblastomas. The antibody cross-reacts with the NF-equivalent protein in mouse, rabbit, rat and swine. The antibody can also be utilized to discriminate between Hirschsprung's disease and allied enteric nervous system malformations.

<u>Catalog Number</u>	<u>Volume</u>
A00020-0002	2 ml
A00020-0007	7 ml
A00020-0025	25 ml

**p21WAF1; Clone WA-1 (Ready-To-Use)**

Species: Mouse  
 Clone: WA-1  
 Isotype: Mouse IgG1, Kappa  
 Species Reactivity: Human.  
 Positive Control: Colon Carcinoma.  
 Specificity: The antibody is highly specific to p21; it does not cross-react with other closely related mitotic inhibitors. Specificity validations include antibody recognition of recombinant p21 by western blot (Koike, 2011) and in direct ELISA assays (Rossner, 2002 & 2007). Although the exact epitope for the antibody has not been mapped, the epitope appears to be different from those recognize by other p21 antibody clones.

<u>Catalog Number</u>	<u>Volume</u>
A00125-0002	2 ml
A00125-0007	7 ml
A00125-0025	25 ml

**p53 Cocktail; Clones Pab 1801 plus DO-7**

Species: Mouse

Clone: Pab1801 &amp; DO-7

Isotype: IgG1 &amp; IgG2b, Kappa

MW: 53 kD

Species Reactivity: Human

Positive Control: About 50% of breast carcinomas are positive for p53, especially those lacking estrogen and/or progesterone receptor, or with high proliferation index.

Specificity: This antibody reacts with wild as well as mutant types of p53 protein. It recognizes an epitope in the N-terminus of p53 protein. p53 is a 53 kD phosphoprotein known as tumor suppressor gene product. About 50% of breast carcinomas are positive for p53 especially those lacking estrogen and/or progesterone receptors. This antibody can be demonstrated in 22-76% of colon, stomach, bladder, breast, lung and testes cancers. Its epitope maps within the N-terminus (aa 32-79) of p53.

<u>Catalog Number</u>	<u>Volume</u>
A20093	2 ml
A00093	6 ml
A00093.0025	25 ml

**p53; Clone BP53-12 (Ready-To-Use)**

Species: Mouse

Clone: BP53-12

Isotype: IgG2a, Kappa

Species Reactivity: Human. Will not cross-react with mouse or rat.

Cellular Localization: Nuclear.

Specificity: This p53 antibody recognizes a 53kDa protein, which is identified as p53 suppressor gene product. The antibody reacts with the mutant as well as the wild form of p53 under denaturing and non-denaturing conditions. The epitope maps within the N-terminus (aa 20-25) of p53 oncoprotein.

<u>Catalog Number</u>	<u>Volume</u>
A00109-0002	2 ml
A00109-0007	7 ml
A00109-0025	25 ml

**p53; Clone DO-1 (Ready-To-Use)**

Species: Mouse Monoclonal

Clone: DO-1

Isotype: IgG2a

MW: 53 kD

Species Reactivity: Human, Monkey, Cow, and weak reaction with Mouse and Rat.

Positive Control: About 50% of breast carcinomas are positive for p53, especially those lacking estrogen and/or progesterone receptor, or with high proliferation index.

Specificity: Recognizes a 53kDa phosphoprotein, identified as p53 suppressor gene product. It reacts with mutant as well as wild form of p53. Its epitope maps within the N-terminus (aa37-45) of p53. Monoclonal antibody Pab 1801 does not block the binding of DO-1 to p53 in an ELISA test.

<u>Catalog Number</u>	<u>Volume</u>
A20027-0002	2 ml
A00027-0007	7 ml
A00027-0025	25 ml

**p53; Clone DO-7 (Ready-To-Use)**

Species: Mouse

Immunogen: Recombinant human wild type p53 protein expressed in E. coli.

Clone: DO-7

Isotype: IgG2b,k

MW: 53 kD

Species Reactivity: Human, Monkey, and Cow. Others not known.

Positive Control: MDA-MB-231 Cells. Breast or colon carcinoma. About 50% of breast carcinomas are positive for p53, especially those lacking estrogen and/or progesterone receptor, or with high proliferation index.

Specificity: Recognizes a 53kDa protein, which is identified as p53 suppressor gene product. It reacts with the mutant as well as the wild type form of p53. Its epitope maps within the N-terminus (aa 37-45) of p53.

<u>Catalog Number</u>	<u>Volume</u>
A00021-0002	2 ml
A00021-0007	7 ml
A00021-0025	25 ml

**PCNA; Clone PC10**

Species: Mouse Monoclonal

Clone: PC10

Isotype: IgG2a/k

MW: 36 kD

Species Reactivity: Human, Murine, Insect, and Yeast

Positive Control: Tonsil or reactive lymph node.

Specificity: Recognizes a non-histone protein of 36kDa which is identified as proliferating cell nuclear antigen (PCNA). It is also known as cyclin or polymerase delta auxiliary protein. Elevated expression of PCNA/cyclin has been shown in the nucleus during late G1 phase immediately before the onset of DNA synthesis, becoming maximal during S-phase and declining during G2 and M phases.

<u>Catalog Number</u>	<u>Volume</u>
A20022	2 ml
A00022	6 ml
A00022.0025	25 ml

**Placental Alkaline Phosphatase (PLAP); Clone ALP/870 (Ready-To-Use)**

Species: Mouse

Immunogen: Recombinant human PLAP protein

Clone: ALP/870

Isotype: IgG2b, kappa

Species Reactivity: Human. Others not known.

Positive Control: HepG2 cells. Placenta or seminoma.

Specificity: Reacts with a 70kDa membrane-bound isozyme (Regan and Nagao type) of Placental Alkaline Phosphatase (PLAP) occurring in the placenta during the 3rd trimester of gestation. It is highly specific for PLAP and shows no cross-reaction with other isozymes of alkaline phosphatase.

<u>Catalog Number</u>	<u>Volume</u>
A00154-0002	2 ml
A00154-0007	7 ml
A00154-0025	25 ml

**PSAP (Prostate Specific Acid Phosphatase); Clone PASE/4LJ**

Species: Mouse Monoclonal

Clone: PASE/4LJ

Isotype: IgG1

MW: 52 kD

Species Reactivity: Human, Dog, Rabbit, and Rat.

Positive Control: Normal prostate or prostate carcinoma.

Specificity: Recognizes a protein of 52kDa, identified as prostate specific acid phosphatase (PSAP). PASE/4LJ is highly specific to PSAP and shows no cross-reaction with other phosphatases. It does not inhibit the enzymatic activity of PSAP. This antibody reacts with non-neoplastic adult and fetal prostatic glands, primary and metastatic prostatic carcinomas. ScyTek's PASE/4LJ is recommended for immunohistochemical staining of formalin-fixed, paraffin-embedded tissues. Unlike polyclonal antibody to PSAP, PASE/4LJ Mab shows no staining in granulocytes, osteoclasts, parietal cells of the stomach, liver cells, renal cell or breast carcinomas.

<u>Catalog Number</u>	<u>Volume</u>
A20041	2 ml
A00041	6 ml
A00041.0025	25 ml

**Renal Cell Carcinoma (RCC); Clone 66.4.C2 (Ready-To-Use)**

Species: Mouse

Clone: 66.4.C2

Isotype: Mouse IgG2b, Kappa

Species Reactivity: Human, Horse. Others not tested.

Positive Control: Kidney.

Specificity: The actual protein recognized by RCC-ma antibody is a 200 kDa glycoprotein (gp200) expressed in renal epithelial cells. In normal tissue, the renal cell carcinoma/RCC-ma/gp200 antibody stains the brush border of proximal renal tubules in human kidneys. Gp200 is also expressed in some non-kidney tissues including breast tubules and ducts, the surface of epididymal tubular epithelia, and the colloid of thyroid follicles. However because of the reported high expression of gp200 in renal cell carcinoma, gp200 is most commonly referred to as Renal Cell Carcinoma Marker.

<u>Catalog Number</u>	<u>Volume</u>
A00118-0002	2 ml
A00118-0007	7 ml
A00118-0025	25 ml

**S-100; Clone 4C4.9 (Ready-To-Use)**

Species: Mouse Monoclonal

Clone: 4C4.9

Isotype: IgG2a

MW: 21-24 kD

Species Reactivity: Human, Cow, Mouse

Positive Control: Melanoma or Schwannoma.

Specificity: Recognizes proteins of 21-24kDa, identified as the A and B subunits of S100 protein. S100 belongs to the family of calcium binding proteins such as calmodulin and troponin C. S100A is composed of an alpha and beta chain whereas S100B is composed of two beta chains. Antibody to S100 stains Schwannomas, ependymomas, astroglomas, almost all benign and malignant melanomas and their metastases. S100 protein is also expressed in the antigen presenting cells such as the Langerhans cells in skin and interdigitating reticulum cells in the paracortex of lymph nodes. S100 protein is highly soluble and may be eluted from frozen tissue during staining.

<u>Catalog Number</u>	<u>Volume</u>
A00087-0002	2 ml
A00087-0007	7 ml
A00087-0025	25 ml

**Secretory Component; Clone SC05 (Ready-To-Use)**

Species: Mouse

Clone: SC05

Isotype: IgG1, Kappa

Species Reactivity: Human, Rat. Others not tested.

Positive Control: Breast carcinoma, Lung, Stomach.

Specificity: This antibody reacts with both free and bound secretory component to secretory IgA.

<u>Catalog Number</u>	<u>Volume</u>
A00127-0002	2 ml
A00127-0007	7 ml
A00127-0025	25 ml

**SOX10; Clone SOX10/991 (Ready-To-Use)**

Species: Mouse

Immunogen: Recombinant human SOX10 protein fragment (aa115-269) (exact sequence is proprietary).

Clone: SOX10/991

Isotype: IgG2b, Kappa.

Species Reactivity: Human and Mouse. Others-not known.

Positive Control: HepG2 cells, Melanoma, breast carcinomas, gliomas.

Specificity: Recognizes a protein of ~55kDa, identified as SOX10. This antibody does not cross-react with other members of the SOX-family.

<u>Catalog Number</u>	<u>Volume</u>
A00161-0002	2 ml
A00161-0007	7 ml
A00161-0025	25 ml

**Thyroglobulin; Clone 2H11 (Ready-To-Use)**

Species: Mouse

Clone: 2H11

Isotype: IgG1, Kappa

Species Reactivity: Human

Cellular Localization: Cytoplasmic

Specificity: Thyroglobulin is a 660 kDa dimeric preprotein with multiple glycosylation sites is produced by and processed within the thyroid gland to produce the hormone thyroxine and triiodothyronine. Prior to forming dimers, thyroglobulin monomers undergo conformation maturation in the endoplasmic reticulum. Thyroglobulin dimerization as well as transport of thyroglobulin to the Golgi complex is calcium dependent. Thyroglobulin defects resulting from defective dimer formation and export to the Golgi is thought to cause some types of goiter. Antibody against thyroglobulin may be produced by individuals with other diseases arising from the gland such as Hashimoto's or Graves disease. Hence the presence of thyroglobulin autoantibodies can help to identify disease. Antibody to thyroglobulin has been shown to be useful for the identification of papillary and follicular thyroid carcinoma; thyroglobulin antibody positive lesions are of thyroidal origin. Carcinomas of nonthyroidal origin do not express thyroglobulin and hence are thyroglobulin antibody negative. It is important to note though that not every type of thyroidal lesion is thyroglobulin antibody positive, a number of forms are negative. Hence a negative result does not necessarily rule out that a given lesion or metastasis originated from the thyroid gland.

<u>Catalog Number</u>	<u>Volume</u>
A00108-0002	2 ml
A00108-0007	7 ml
A00108-0025	25 ml

**TTF-1; Clone 8G7G3/1 (Ready-To-Use)**

Species: Mouse

Designation: Mouse Monoclonal

Clone: 8G7G3/1

Isotype: IgG1

Species Reactivity: Human. Others not tested.

Positive Control: Adenocarcinoma of the Lung or Thyroid.

Specificity: This antibody reacts with TTF-1 protein found in adenocarcinomas of the lung and tumors originating in the thyroid. TTF-1 positive cells are found in Type II pneumocytes and Clara cells in the lung. In the thyroid, follicular and parafollicular cells are positive. In lung cancers, Adenocarcinomas are usually positive, while Squamous Cell Carcinomas and Large Cell Carcinomas are rarely positive. In addition, Small-Cell Carcinomas (of any primary site) are usually positive.

<u>Catalog Number</u>	<u>Volume</u>
A00144-0002	2 ml
A00144-0007	7 ml
A00144-0025	25 ml

**Tyrosinase; Clone T311 (Ready-To-Use)**

Species: Mouse

Clone: T311

Isotype: Mouse IgG1

Species Reactivity: Human.

Positive Control: Human Melanoma

Specificity: Tyrosinase has been shown to be a very specific marker for melanomas. Cross reactivity with other tumors or normal tissues tested has not been reported.

<u>Catalog Number</u>	<u>Volume</u>
A00132-0002	2 ml
A00132-0007	7 ml
A00132-0025	25 ml

**Uchl1 (PGP9.5); Clone 31A3 (Ready-To-Use)**

Species: Mouse

Clone: 31A3

Isotype: Mouse IgG1, Kappa

Species Reactivity: Cow, Human, Mouse, Pig, Rat.

Positive Control: Brain.

Specificity: The Uchl1 clone 31A3 antibody stains neuronal cell bodies and axons in the central and peripheral nervous systems as well as small nerve fibers in peripheral tissues, including epidermal tissues (Day & Thompson, 2010). The antibody also stains neuroendocrine cells in the kidney, pituitary, thyroid, pancreas, gastrointestinal tract, and tumors of the diffuse neuroendocrine system. This antibody has also identified Uchl1 expression in renal tubule spermatogonia, testis, ovary, and both pregnant and non-pregnant corpus luteum.

<u>Catalog Number</u>	<u>Volume</u>
A00120-0002	2 ml
A00120-0007	7 ml
A00120-0025	25 ml

**Vimentin; Clone SP20**

Species: Rabbit

Immunogen: Recombinant protein encoding human vimentin.

Mol. Weight: 57-60kDa

Clone: SP20

Isotype: IgG

Specificity: This antibody selectively stains vimentin in human tissue sections. Vimentin is the main intermediate filament in mesenchymal cells and is therefore of value in the differential diagnosis of undifferentiated neoplasms.

Species Reactivity: Human. Others not tested.

<u>Catalog Number</u>	<u>Volume</u>
A20105	2 ml
A00105	6 ml
A00105.0025	25 ml

**Vimentin; Clone V9**

Species: Mouse Monoclonal

Clone: V9

Isotype: IgG1/k

MW: 57-60 kD

Species Reactivity: Human, Monkey, Cow, Horse, Pig, Rabbit, Dog, Cat, Rat, Mouse, Hamster, Gerbil and Chicken.

Positive Control: Sarcomas, meningiomas, or melanomas.

Specificity: Recognizes a 57-60kDa protein which is identified as vimentin. It shows no cross reactivity with other closely related intermediate filament proteins including desmin and GFAP.

<u>Catalog Number</u>	<u>Volume</u>
A20045	2 ml
A00045	6 ml
A00045.0025	25 ml

**Monoclonal Concentrates****Actin, Alpha-Smooth Muscle; Clone 1A4 (Concentrate)**

Species: Mouse Monoclonal

Clone: 1A4

Isotype: IgG2a,k

Species Reactivity: Human, Baboon, Cow, Rabbit, Mouse, Rat, Chicken.

Positive Control: Blood vessels

Specificity: This antibody recognizes the  $\alpha$ -smooth muscle form of actin. It shows no cross reaction with actin from fibroblasts (b- and g-cytoplasmic), striated muscle (a-sarcomeric), and myocardium (a-myocardial). Its epitope is composed of the acetyl group and the first 4 amino acids on the N-terminal end of the peptidic chain of  $\alpha$ -smooth actin. ScyTek's 1A4 stains smooth muscle cells in vessel walls, gut wall, and myometrium. Myoepithelial cells in breast and salivary gland are also stained as they also contain this actin.

<u>Catalog Number</u>	<u>Volume</u>
A00002-C.1	0.1 ml
A00002-C	1 ml

**Bcl-2; Clone 100/D5 (Concentrate)**

Species: Mouse

Clone: 100/D5

Isotype: Mouse IgG1, Kappa

Species Reactivity: Human, Monkey. Others not tested.

Positive Control: Tonsil.

Cellular Localization: Cytoplasmic &amp; Cell Membrane.

Specificity: Human Bcl-2  $\alpha$  is a 239 amino acid (aa) protein and human Bcl-2  $\beta$  is a 205 aa protein. The 100/D5 antibody [also known as clone Bcl-2/100 (Kren, 2004, Kaur, 2004)] recognizes both Bcl-2 isoforms (Pezzela et al, 1990).

<u>Catalog Number</u>	<u>Volume</u>
A00119-C.1	0.1 ml
A00119-C	1 ml

**Bcl-2; Clone 124 (Concentrate)**

Species: Mouse

Immunogen: A synthetic peptide, aa41-54 (GAAPAPGIFSSQPG-Cys) of human Bcl-2 protein

Clone: 124

Isotype: IgG1, kappa

Species Reactivity: Human. Does not react with Mouse and Rat. Others not known.

Positive Control: Jurkat, K562, HL-60, or HeLa Cells. Tonsil or follicular lymphomas.

Specificity: This antibody recognizes a protein of 25-26kDa, identified as the Bcl-2  $\alpha$  oncoprotein. It shows no cross-reaction with Bcl-x or Bax protein.

<u>Catalog Number</u>	<u>Volume</u>
A00004-C.1	0.1 ml
A00004-C	1 ml

**CA19-9; Clone 121SLE (Concentrate)**

Species: Mouse

Clone: 121SLE

Isotype: IgM, Kappa

Species Reactivity: Human

Cellular Localization: Luminal surface and cytoplasm.

Specificity: CA19-9, a carbohydrate epitope expressed on a high MW (>400kDa) mucin glycoprotein, is a sialyl Lewisia structure which is synthesized from type 1 blood group precursor chains and is present in individuals expressing the Lewisia and/or Lewisb blood group antigens. In normal tissues, sialyl Lewisia antigen is present in ductal epithelium of the breast, kidney, salivary gland, and sweat glands. Its expression is greatly enhanced in serum as well as in the majority of tumor cells in gastrointestinal (GI) carcinomas, including adenocarcinomas of the stomach, intestine, and pancreas. Preoperative elevated CA19-9 levels in patients with stage I pancreatic carcinoma decrease to normal values following surgery. When used serially, CA19-9 can predict recurrence of disease prior to radiographic or clinical findings.

<u>Catalog Number</u>	<u>Volume</u>
A00107-C	1 ml

**Carcinoembryonic Antigen, Pan (CEA); Clone COL-1 (Concentrate)**

Species: Mouse

Immunogen: BALB/c mice were injected with an extract of human colon carcinoma.

Clone: COL-1

Isotype: IgG1 Kappa

Species Reactivity: Human. Others not tested.

Positive Control: Colon Adenocarcinoma.

Specificity: This antibody labels the CEA-positive glycocalyx surface of gastrointestinal cells and is useful for the identification of colon carcinomas.

<u>Catalog Number</u>	<u>Volume</u>
A00135-C	1 ml

**CD10, CALLA (Neutral Endopeptidase); Clone 56C6 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human CD10 protein fragment.  
 Clone: 56C6  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Rat. Others not tested.  
 Positive Control: Kidney, small intestine, or tonsil.  
 Specificity: Recognizes a 100kDa glycoprotein, identified as CD10, also known as Common Acute Lymphatic Leukemia Antigen (CALLA).

<u>Catalog Number</u>	<u>Volume</u>
A00091-C.1	0.1 ml
A00091-C	1 ml

**CD15 / FUT4; Clone Leu-M1 (Concentrate)**

Species: Mouse  
 Immunogen: U937 histiocytic cell line  
 Clone: Leu-M1  
 Isotype: IgM, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: U937 cells, Reed-Sternberg's cells in Hodgkin's lymphoma.  
 Specificity: This antibody reacts with a 220 kDa protein, CD15 / FUT4 expressed on Reed-Sternberg cells.

<u>Catalog Number</u>	<u>Volume</u>
A00151-C.1	0.1 ml
A00151-C	1 ml

**CD20, B-Cell; Clone L26 (Concentrate)**

Species: Mouse  
 Immunogen: Human tonsil B-cells  
 Clone: L26  
 Isotype: IgG2a, kappa  
 Species Reactivity: Human, Baboon, and Monkey. Does not react with Cow, Dog, Pig, and Rat. Others not known.  
 Positive Control: Daudi, Raji, and U266, and human lymphocytes, lymph nodes and tonsils.  
 Specificity: Recognizes a protein of 30-33kDa, which is identified as CD20. Its epitope is located in the cytoplasmic domain of CD20 and was, therefore, ascribed as CD20cy in the 5th Workshop.

<u>Catalog Number</u>	<u>Volume</u>
A00003-C.1	0.1 ml
A00003-C	1 ml

**CD30, Ki-1 Antigen; Clone Ber-H2 (Concentrate)**

Species: Mouse  
 Immunogen: Cancer cell line established from a patient with Hodgkin's disease of T-cell lineage  
 Clone: Ber-H2  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Hodgkin's lymphoma  
 Specificity: Recognizes a single chain glycoprotein of 105/120kDa, identified as CD30/Ki-1. This Mab distinguishes large cell lymphomas derived from activated lymphoid cells from histiocytic malignancies and lymphomas derived from resting and precursor lymphoid cells or from anaplastic carcinomas.

<u>Catalog Number</u>	<u>Volume</u>
A00016-C.1	0.1 ml
A00016-C	1 ml

**CD31, Endothelial Cell; Clone JC/70A (Concentrate)**

Species: Mouse  
 Immunogen: Membrane preparation of a spleen from a patient with hairy cell leukemia.  
 Clone: JC/70A  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Cynomolgus Monkey, and Rabbit. Others not known.  
 Positive Control: Tonsil, Angiosarcoma.  
 Specificity: Anti-CD31 has shown to be highly specific and sensitive for vascular endothelial cells. Staining of nonvascular tumors (excluding hematopoietic neoplasms) is rare. Anti-CD31 reacts with normal, benign, and malignant endothelial cells which make up blood vessel lining.

<u>Catalog Number</u>	<u>Volume</u>
A00009-C.1	0.1 ml
A00009-C	1 ml

**CD31; Clone C31.3 (Concentrate)**

Species: Mouse  
 Clone: C31.3  
 Isotype: Mouse IgG1, Kappa  
 Species Reactivity: Human.  
 Positive Control: Tonsil, Liver, Kidney.  
 Specificity: The CD31 antibody (clone C31.3 or PECAM-1) is widely used as a pan-endothelial cell marker to demonstrate the presence of endothelial cells in tissue sections by immunohistochemistry. The CD31 (PECAM-1) antibody reacts with normal, benign, and malignant endothelium.

<u>Catalog Number</u>	<u>Volume</u>
A00126-C	1 ml

**CD31; Clone C31.7 (Concentrate)**

Species: Mouse  
 Clone: C31.7  
 Isotype: IgG1, Kappa  
 Species Reactivity: Human.  
 Positive Control: Tonsil  
 Cellular Localization: Primarily membrane.  
 Specificity: This antibody recognizes a 100kDa glycoprotein in endothelial cells and 130kDa in platelets. This antibody reacts with endothelial cells in normal tissues and in benign and malignant proliferations. In cryostat sections and blood smears the antibody also stains megakaryocytes, platelets and occasionally plasma cells. It reacts weakly with mantle zone B cells, peripheral T cells, and neutrophils. Antibody to CD31 is of value in the study of benign and malignant vascular tumors. Staining for CD31 has also been used to measure angiogenesis, which reportedly predicts tumor recurrence.

<u>Catalog Number</u>	<u>Volume</u>
A00110-C	1 ml



**CD34, Endothelial Cell; Clone QBEnd/10 (Concentrate)**

Species: Mouse

Immunogen: Detergent solubilized vesicular suspension prepared from human term placenta  
Clone: QBEnd/10

Isotype: IgG1, kappa

Species Reactivity: Human, Cynomolgus Monkey, Rhesus Monkey. Does not react with rat, sheep, cow and dog. Others not known.

Positive Control: KG-1 cells, Tonsil, or Angiosarcoma

Specificity: This antibody recognizes a single chain, transmembrane, heavily glycosylated protein of 90-120kDa, which is identified as CD34. On the basis of differential sensitivity to degradation by specific enzymes, epitopes of monoclonal antibodies to CD34 are classified into three main categories, class I, class II and class III. It is a class II antibody whose epitope is resistant to neuraminidase but sensitive to glycoprotease and chymopapain. Anti-CD34 labels > 85% of angiosarcoma and Kaposi's sarcoma, but with a lower specificity.

<u>Catalog Number</u>	<u>Volume</u>
A00070-C.1	0.1 ml
A00070-C	1 ml

**CD43, T-Cell; Clone DF-T1 (Concentrate)**

Species: Mouse

Immunogen: Myeloblastic KG1 cells

Clone: DF-T1

Isotype: IgG1, kappa

Species Reactivity: Human. Others not known.

Positive Control: Paracortex in a tonsil or a reactive lymph node.

Specificity: This antibody recognizes a cell surface glycoprotein of 95/115/135kDa (depending upon the extent of glycosylation), identified as CD43 [Workshop IV].

<u>Catalog Number</u>	<u>Volume</u>
A00082-C.1	0.1 ml
A00082-C	1 ml

**CD45, Leucocyte Common Antigen (LCA); Clones PD7/26 & 2B11 (Concentrate)**

Species: Mouse

Immunogen: Isolated neoplastic cells from T-cell lymphoma (2B11); human peripheral blood lymphocytes maintained in T-cell growth factor (PD7/26).

Clone: 2B11 & PD7/26

Isotype: IgG1, kappa (2B11); IgG1, kappa (PD7/26).

Species Reactivity: Human. Others not known.

Positive Control: Ramos, U-698, or GA-10 cells. Tonsil.

Specificity: This antibody recognizes the CD45 leukocyte common antigen (LCA) family.

<u>Catalog Number</u>	<u>Volume</u>
A00017-C.1	0.1 ml
A00017-C	1 ml

**CD45; Clone 2B11 (Concentrate)**

Species: Mouse

Clone: 2B11

Isotype: Mouse IgG1, Kappa

Species Reactivity: Human.

Positive Control: Tonsil.

Specificity: This antibody is specific for hematopoietic cells, including basophils, granulocytes, lymphocytes, macrophages / histiocytes, mast cells, monocytes, plasma cells; NOT mature red blood cells and their immediate progenitors, platelets or megakaryocytes, Dendritic cells, medullary thymocytes.

<u>Catalog Number</u>	<u>Volume</u>
A00129-C	1 ml

**CD45RA (LCA); Clone 158-4D3 (Concentrate)**

Species: Mouse

Clone: 158-4D3

Isotype: Mouse IgG2a, Kappa

Species Reactivity: Human. Others not tested.

Positive Control: Tonsil, Spleen.

Specificity: The CD45RA 158-4D3 antibody clone reacts with the ABC and BC isoforms (Schlossman et al, 1995). CD45RA has a molecular weight of 205-220 kDa.

<u>Catalog Number</u>	<u>Volume</u>
A00123-C	1 ml

**CD45RB; Clone PD7/26 (Concentrate)**

Species: Mouse

Clone: PD7/26

Isotype: Mouse IgG1

Species Reactivity: Human.

Positive Control: Tonsil.

Specificity: This antibody is specific for hematopoietic cells, including basophils, granulocytes, lymphocytes, macrophages/histiocytes, mast cells, monocytes, plasma cells; NOT mature red blood cells and their immediate progenitors, platelets or megakaryocytes, dendritic cells, medullary thymocytes. CD45RB is highly expressed on memory B cells and plasmablasts but not on naïve B cells, Langerhans cells and some T cells, B cells, monocytes, macrophages, granulocytes.

<u>Catalog Number</u>	<u>Volume</u>
A00130-C	1 ml

**CD45RO, T-Cell; Clone UCHL1 Concentrate**

Species: Mouse Monoclonal

Clone: UCHL1

Isotype: IgG2a,k

Species Reactivity: Human, Rhesus Monkey. Does not react with Rat.

Positive Control: Tonsil or Lymph Node.

Specificity: This antibody reacts with a 180 kD glycoprotein of CD45 family, occurring on most thymocytes and activated T cells but only on the portion of the resting T cells. It reacts with most thymocytes, a subpopulation of resting cells within both the CD4 and CD8 subsets and mature activated T cells. This antibody shows no reactivity with normal B or natural killer cells, but reacts with granulocytes and monocytes. Though this antibody is useful to identify T-cell lymphomas and leukemia, rare staining with B cell lymphomas reported.

<u>Catalog Number</u>	<u>Volume</u>
A00024-C	1 ml

**CD56; Clone 123C3 (Concentrate)**

Species: Mouse  
 Clone: 123C3  
 Isotype: Mouse IgG1, Kappa  
 Species Reactivity: Human.  
 Positive Control: Tonsil, Neuroblastoma, Pancreatic Islet cells.  
 Specificity: This antibody recognizes two proteins (185kDa & 145kDa), identified as two isoforms of neural cell adhesion molecule (NCAM/CD56). It is used as a tumor marker in various cancers such as NK lymphomas and Merkel cell carcinoma. NCAM is expressed on most neuroectodermal derived lines, tissues, and neoplasms such as retinoblastoma, medulloblastoma, astrocytoma, and neuroblastoma. It is also expressed on some mesodermally derived tumors such as rhabdomyosarcoma and also on natural killer cells.

<u>Catalog Number</u>	<u>Volume</u>
A00121-C.1	0.1 ml
A00121-C	1 ml

**CD57 (HNK-1); Clone NK-1 (Concentrate)**

Species: Mouse  
 Clone: NK-1  
 Isotype: Mouse IgM, Kappa  
 Species Reactivity: Human.  
 Positive Control: Tonsil, spleen, lymph node.  
 Specificity: The NK1 antibody clone recognizes the glycoepitope referred to as both CD57 and HNK1.

<u>Catalog Number</u>	<u>Volume</u>
A00117-C.1	0.1 ml
A00117-C	1 ml

**Chromogranin A; Clones LK2H10 & PHE5 (Concentrate)**

Species: Mouse  
 Immunogen: Human pheochromocytoma (LK2H10 & PHE5).  
 Clone: LK2H10 & PHE2  
 Isotype: IgG1, Kappa (Both)  
 Species Reactivity: Human, Monkey, Pig, Mouse and Rat. Others not known  
 Positive Control: PC12 cells. Adrenal gland, bowel, thyroid, pancreas, or pheochromocytoma.  
 Specificity: Chromogranin A is present in neuroendocrine cells throughout the body, including the neuroendocrine cells of the large and small intestine, adrenal medulla and pancreatic islets. It is an excellent marker for carcinoid tumors, pheochromocytomas, paragangliomas, and other neuroendocrine tumors.

<u>Catalog Number</u>	<u>Volume</u>
A00160-C.1	0.1 ml
A00160-C	1 ml

**Cyclin D1; Clone DCS-6 (Concentrate)**

Species: Mouse  
 Designation: Mouse Monoclonal  
 Clone: DCS-6  
 Isotype: IgG2a, Kappa  
 Species Reactivity: Human.  
 Positive Control: Mantle cell lymphoma and breast carcinoma.  
 Cellular Localization: Nuclear.  
 Specificity: The DCS-6 antibody is specific for cyclin D1, and has been key in elucidating the function and involvement of cyclin D1 in oncogenesis. Results with this antibody have helped to show that Cyclin D1 is over expressed in many different kinds of cancer. For example, about 50-70% of mantle cell lymphomas and 40% of breast carcinomas are cyclin D1.

<u>Catalog Number</u>	<u>Volume</u>
A00111-C	1 ml

**Cytokeratin 10; Clone DE-K10 (Concentrate)**

Species: Mouse  
 Immunogen: Cytoskeletal preparation extracted from human ectocervical epithelium.  
 Clone: DE-K10  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Dog and Cat. Others not known.  
 Positive Control: Esophagus or Tonsil. A431, HeLa, MCF7 cells.  
 Specificity: This antibody recognizes a protein of 56.5kDa identified as Cytokeratin 10.

<u>Catalog Number</u>	<u>Volume</u>
A00089-C.1	0.1 ml
A00089-C	1 ml

**Cytokeratin 19; Clone A53-B/A2.26 (Concentrate)**

Species: Mouse  
 Clone: A53-B/A2.26 (Ks 19.1)  
 Isotype: Mouse IgG2a, Kappa  
 Species Reactivity: Human. Reacts weakly with mouse, rat and guinea pig Cytokeratin 19.  
 Positive Control: Skin, Breast carcinoma, Colon carcinoma, Thyroid.  
 Specificity: This antibody reacts with the rod domain of human Cytokeratin 19, a polypeptide of 40kDa. The antibody recognition epitope maps between amino acid 312-335. This antibody reacts with the MCF-7 cells which are known to contain Cytokeratin 19.

<u>Catalog Number</u>	<u>Volume</u>
A00122.C.1	0.1 ml
A00122-C	1 ml

**Cytokeratin 6; Clone EP67 (Concentrate)**

Species: Rabbit  
 Designation: Rabbit Monoclonal  
 Clone: EP67  
 Isotype: IgG  
 Species Reactivity: Human. Others not tested.  
 Positive Control: Skin for normal tissue and Mesothelioma for abnormal tissue.  
 Specificity: Cytokeratin 6 is expressed in many non-keratinizing stratified squamous epithelia of large cell carcinoma and pulmonary squamous cell carcinomas. It can also be found on stratified epithelia including: basal layer of epidermis, the outer root sheath of hair follicles, esophagus, oral mucosa, as well as basal cells in prostate glands and myoepithelial cells in mammary glands.

<u>Catalog Number</u>	<u>Volume</u>
A00140-C.1	0.1 ml
A00140-C	1 ml

**Cytokeratin 7; Clone OV-TL12/30 (Concentrate)**

Species: Mouse  
 Clone: OV-TL12/30  
 Isotype: IgG1  
 Species Reactivity: Human. Others not tested.  
 Positive Control: Carinoma of Ovary, Lung, Cervix or Breast.  
 Specificity: Cytokeratin 7 expression is restricted to most glandular and transitional epithelia including lung, breast, bladder and female genital tract and their adenocarcinomas, but not in most gastrointestinal epithelium, prostate, hepatocyte and squamous epithelium.

<u>Catalog Number</u>	<u>Volume</u>
A00142-C.1	0.1 ml
A00142-C	1 ml

**Cytokeratin 8; Clone K8/383 (Concentrate)**

Species: Mouse  
 Clone: K8/383  
 Isotype: IgG1  
 Species Reactivity: Human, Rat. Others not tested.  
 Positive Control: MCF-7 or A431 cells. Human Skin, Colon, Lung or Breast carcinoma.  
 Specificity: Cytokeratin 8 Antibody belongs to the type II (or B or Basic) subfamily of high molecular weight Cytokeratins and exists in combination with Cytokeratin 18. Cytokeratin 8 is primarily found in the non-squamous epithelia and is present in a majority of adenocarcinomas and ductal carcinomas. It is absent in squamous cell carcinomas.

<u>Catalog Number</u>	<u>Volume</u>
A00136-C	1 ml

**Cytokeratin, Multi (Acidic); Clone AE1 (Concentrate)**

Species: Mouse Monoclonal  
 Clone: AE-1  
 Isotype: IgG1  
 MW: 56.5, 50, 50', 48 and 40 kD  
 Species Reactivity: Human, Monkey, Cow, Rabbit, Mouse, Rat, Chicken. Others not tested.  
 Positive Control: Human epidermal keratin or carcinoma. HT29 cells.  
 Specificity: Monoclonal antibody AE1 recognizes the 56.5, 50, 50', 48, and 40kDa keratins of the acidic subfamily. Twenty human keratins are resolved with two-dimensional gel electrophoresis into acidic (pI<5.7) and basic (pI>6.0) subfamilies. The acidic keratins have molecular weights of 56.5, 55, 51, 50, 50', 48, 46, 45, and 40kDa.

<u>Catalog Number</u>	<u>Volume</u>
A00051-C.1	0.1 ml
A00051-C	1 ml

**Cytokeratin, Multi (Basic); Clone AE-3 (Concentrate)**

Species: Mouse  
 Immunogen: Human epidermal keratin  
 Clone: AE-3  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Monkey, Cow, Dog, Rabbit, Mouse, Rat, Chicken. Others not known.  
 Positive Control: Epithelial cells, skin or adenocarcinomas.  
 Specificity: This antibody recognizes basic (Type II or HMW) cytokeratins, which include 67kDa (CK1); 64kDa (CK3); 59kDa (CK4); 58kDa (CK5); 56kDa (CK6); 52kDa (CK8).

<u>Catalog Number</u>	<u>Volume</u>
A00052-C.1	0.1 ml
A00052-C	1 ml

**Cytokeratin, Pan; Clones AE1 & AE3 (Concentrate)**

Species: Mouse  
 Immunogen: Human epidermal keratin  
 Clone: AE-1 & AE-3  
 Isotype: IgG1, kappa (AE-1); IgG1, kappa (AE-3)  
 Species Reactivity: Human, Monkey, Cow, Dog, Rabbit, Mouse, Rat, Chicken. Others not known.  
 Positive Control: Skin, Adeno- or Squamous carcinomas.  
 Specificity: This antibody cocktail recognizes acidic (Type I or LMW) and basic (Type II or HMW) cytokeratins, which include 67kDa (CK1); 64kDa (CK3); 59kDa (CK4); 58kDa (CK5); 56kDa (CK6); 52kDa (CK8); 56.5kDa (CK10); 50kDa (CK14); 50kDa (CK15); 48kDa (CK16); 40kDa (CK19). This antibody stains cytokeratins present in normal and abnormal human tissues and has shown high sensitivity in the recognition of epithelial cells and carcinomas.

<u>Catalog Number</u>	<u>Volume</u>
A00152-C.1	0.1 ml
A00152-C	1 ml

**Desmin; Clone D33 (Concentrate)**

Species: Mouse  
 Immunogen: Proteins from human Leiomyoma.  
 Clone: D33  
 Isotype: IgG1, kappa  
 Species Reactivity: Human, Rat, Mouse, Hamster, Chicken.  
 Others not known.  
 Positive Control: Muscle, Uterus, Leiomyosarcoma or SJRH30 cells.  
 Specificity: Desmin, Clone D33 detects cells of normal smooth, skeletal, and cardiac muscles. This antibody reacts with leiomyomas, leiomyosarcoma, rhabdomyomas, rhabdomyosarcoma, and perivascular cells of glomus tumors of the skin.

<u>Catalog Number</u>	<u>Volume</u>
A00007-C.1	0.1 ml
A00007-C	1 ml

**Epithelial Membrane Antigen; Clone E29 (Concentrate)**

Species: Mouse  
 Immunogen: Delipidated extract of human milk fat globule membranes  
 Clone: E29  
 Isotype: IgG2a, kappa  
 Species Reactivity: Human. Reacts moderately with Pig and Dog.  
 Others not known.  
 Positive Control: MCF-7 or MDA-231 cells. Breast or colon carcinoma.  
 Specificity: In Western blotting, this antibody recognizes proteins in a MW range of 265-400kDa, identified as different glycoforms of EMA (MUC1). This antibody reacts with the DTRP epitope within the tandem repeats. In immunohistochemical assays, it superbly stains routine formalin/paraffin carcinoma tissues. An antibody to EMA (MUC1) is useful as a pan-epithelial marker for detecting early metastatic loci of carcinoma in bone marrow or liver.

<u>Catalog Number</u>	<u>Volume</u>
A00008-C.1	0.1 ml
A00008-C	1 ml

**Estrogen Receptor; Clone 11D5 (Concentrate)**

Species: Mouse  
 Clone: 11D5  
 Isotype: IgG1, Kappa  
 Species Reactivity: Human  
 Positive Control: Breast Carcinoma.  
 Cellular Localization: Nuclei.

Specificity: This antibody is specific to estrogen receptor, which is associated with superior prognosis and a better response to endocrine therapy. The nuclei of the estrogen receptor positive cells stain very strongly with this antibody, without any staining in the cytoplasm. However, on cryostat sections a positive staining of estrogen receptor in the nucleus as well as cytoplasm can be seen. This antibody can be used for gel shift assay, immunoprecipitation, immunohistochemistry and western blotting.

<u>Catalog Number</u>	<u>Volume</u>
A00106-C	1 ml

**Estrogen Receptor; Clone ERa078 (Concentrate)**

Species: Mouse  
 Clone: ERa078  
 Isotype: Mouse IgG1, Kappa  
 Species Reactivity: Human.  
 Positive Control: Breast carcinoma.  
 Specificity: This antibody is specific for estrogen receptor.

<u>Catalog Number</u>	<u>Volume</u>
A00128-C	1 ml

**GFAP; Clone ASTRO/789 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant GFAP protein  
 Clone: ASTRO/789  
 Isotype: IgG1  
 Species Reactivity: Human, Mouse, Rat, Cow, Pig, Rabbit, and Chicken. Others not known.  
 Positive Control: Brain or Astrocytoma.  
 Specificity: This antibody recognizes a protein of ~50kDa which is identified as Glial Fibrillary Acidic Protein (GFAP). It shows no cross-reaction with other intermediate filament proteins.

<u>Catalog Number</u>	<u>Volume</u>
A00158-C.1	0.1 ml
A00158-C	1 ml

**Insulin; Clone 2D11-H5 (Concentrate)**

Species: Mouse  
 Clone: 2D11-H5  
 Isotype: Mouse IgG1, Kappa  
 Species Reactivity: Human, Pig, Cow.  
 Positive Control: Pancreatic tissue.  
 Specificity: Detects insulin and insulin producing cells.

<u>Catalog Number</u>	<u>Volume</u>
A00114-C	1 ml

**Kappa Light Chain; Clone KLC264 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human Ig kappa chain  
 Clone: KLC264  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T, Raji or hPBL cells. Tonsil or Spleen.  
 Specificity: This monoclonal antibody is specific to the kappa light chain of immunoglobulins and shows no cross-reaction with the lambda light chain or any of the five heavy chains.

<u>Catalog Number</u>	<u>Volume</u>
A00156-C.1	0.1 ml
A00156-C	1 ml

**Kappa; Clone L1C1 (Concentrate)**

Species: Mouse  
 Clone: L1C1  
 Isotype: Mouse IgG1, Kappa  
 Species Reactivity: Human.  
 Positive Control: Tonsil.  
 Specificity: The kappa light chain antibody recognizes the kappa light chain of immunoglobulin.

<u>Catalog Number</u>	<u>Volume</u>
A00113-C.1	0.1 ml
A00113-C	1 ml

**Lambda Light Chain; Clone LcN-2 (Concentrate)**

Species: Mouse  
 Immunogen: Purified human IgG  
 Clone: LcN-2  
 Isotype: IgG2a, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: 293T, Raji or hPBL cells. Tonsil or spleen.  
 Specificity: This monoclonal antibody is specific to the lambda light chain of immunoglobulins and shows no cross-reaction with the kappa light chain or any of the five heavy chains.

<u>Catalog Number</u>	<u>Volume</u>
A00155-C.1	0.1 ml
A00155-C	1 ml

**MART-1; Clone M2-7C10 (Concentrate)**

Species: Mouse  
 Clone: M2-7C10  
 Isotype: Mouse IgG2b, Kappa  
 Species Reactivity: Human. Clone M2-7C10 does not react with mouse or rat.  
 Positive Control: Metastatic melanoma in lymph nodes.  
 Specificity: The clone M2-7C10 MART-1 antibody labels melanomas and other tumors showing melanocyte differentiation.

<u>Catalog Number</u>	<u>Volume</u>
A00115-C	1 ml

**MART-1; Clone M2-9E2 (Concentrate)**

Species: Mouse  
 Clone: M2-9E2  
 Isotype: Mouse IgG2b, Kappa  
 Species Reactivity: Human, Mouse, Rat.  
 Positive Control: Metastatic melanoma in lymph nodes.  
 Specificity: The clone M2-9E2 MART-1 antibody labels melanomas and other tumors showing melanocyte differentiation.

<u>Catalog Number</u>	<u>Volume</u>
A00116-C	1 ml

**MART-1; Clones M2-7C10 & M2-9E3 (Concentrate)**

Species: Mouse  
 Clones: M2-7C10 & M2-9E3  
 Isotype: Mouse IgG2b, kappa  
 Species Reactivity: Human.  
 Positive Control: Human Melanoma.  
 Specificity: MART-1 has been shown to be a very specific marker for melanomas.

<u>Catalog Number</u>	<u>Volume</u>
A00133-C	1 ml

**Melanoma Associated Antigen; Clone KBA.62 (Concentrate)**

Species: Mouse  
 Immunogen: Human KAL cells derived from lymph node metastasis of malignant melanoma  
 Clone: KBA.62  
 Isotype: IgG1, kappa  
 Species Reactivity: Human. Others not known.  
 Positive Control: Melanoma  
 Cellular Localization: Cell Surface  
 Specificity: KBA.62 is a novel anti-melanoma antibody. It reacts positively against melanocytic tumors but not against other tumors, thus demonstrating specificity and sensitivity. Moreover, it reacts positively against junctional nevus cells but not intradermal nevi, and against fetal melanocytes but not normal adult melanocytes.

<u>Catalog Number</u>	<u>Volume</u>
A00153-C.1	0.1 ml
A00153-C	1 ml

**Melanoma; Clone HMB45 (Concentrate)**

Species: Mouse  
 Clone: HMB45  
 Isotype: Mouse IgG1/ Kappa  
 Species Reactivity: Human. Does not react with dog and rat.  
 Positive Control: Human Melanoma  
 Specificity: HMB45 has been shown to be a very specific marker for melanomas.

<u>Catalog Number</u>	<u>Volume</u>
A00019-C	1 ml

**Melanoma; Pan (Concentrate)**

Species: Mouse  
 Clones: MART-1; Clone M2-7C10, MART-1; Clone M2-9E3, Tyrosinase; Clone T311, Melanoma: HMB45.  
 Isotype: Mouse IgG1  
 Species Reactivity: Human.  
 Positive Control: Human Melanoma  
 Specificity: Melanoma; Pan is a broad spectrum marker for metastatic melanoma.

<u>Catalog Number</u>	<u>Volume</u>
A00134-C.1	0.1 ml
A00134-C	1 ml

**MUC5AC (Gastric Mucin); Clone 45M1 (Concentrate)**

Species: Mouse  
 Clone: 45M1  
 Isotype: Mouse IgG1, Kappa  
 Species Reactivity: Human, Monkey, Cat, Chicken, Hedgehog, Mouse, Pig, Rabbit, Rat. Does not react with cow.  
 Positive Control: Stomach.  
 Specificity: MUC5AC is expressed in airway and gastric epithelial cells and highly expressed in colorectal carcinomas.

<u>Catalog Number</u>	<u>Volume</u>
A00124-C.1	0.1 ml
A00124-C	1 ml

**Napsin A; Clones NAPS/1238 & NAPS/1239 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human Napsin-A protein fragment (aa 189-299). Exact sequence is proprietary.

Clones: NAPS/1238 &amp; NAPS/1239

Isotype: IgG1, Kappa

Species Reactivity: Human. Others not tested.

Positive Control: Lung adenocarcinoma.

Specificity: This antibody is specific for a pepsin-like aspartic proteinase identified as Napsin A.

<u>Catalog Number</u>	<u>Volume</u>
A00131-C.1	0.1 ml
A00131-C	1 ml

**Neurofilament; Clone 2F11 (Concentrate)**

Species: Mouse

Clone: 2F11

Isotype: IgG1, Kappa

Species Reactivity: Human, Rabbit, Cat, Mouse and Rat. Does not react with dog.

Positive Control: Brain

Specificity: This antibody stains neurons (axons) of the central and peripheral nervous system. It is useful for the identification of tumors with neuronal differentiation viz. Neuroblastomas, Ganglioneuromas, Pheochromocytomas and Esthesioblastomas. The antibody cross-reacts with the NF-equivalent protein in mouse, rabbit, rat and swine. The antibody can also be utilized to discriminate between Hirschsprung's disease and allied enteric nervous system malformations.

<u>Catalog Number</u>	<u>Volume</u>
A00020-C	1 ml

**p21WAF1; Clone WA-1 (Concentrate)**

Species: Mouse

Clone: WA-1

Isotype: Mouse IgG1, Kappa

Species Reactivity: Human.

Positive Control: Colon Carcinoma.

Specificity: The antibody is highly specific to p21; it does not cross-react with other closely related mitotic inhibitors. Specificity validations include antibody recognition of recombinant p21 by western blot (Koike, 2011) and in direct ELISA assays (Rossner, 2002 & 2007). Although the exact epitope for the antibody has not been mapped, the epitope appears to be different from those recognize by other p21 antibody clones.

<u>Catalog Number</u>	<u>Volume</u>
A00125-C.1	0.1 ml
A00125-C	1 ml

**p53; Clone BP53-12 (Concentrate)**

Species: Mouse

Clone: BP53-12

Isotype: IgG2a, Kappa

Species Reactivity: Human. Will not cross-react with mouse or rat.

Cellular Localization: Nuclear.

Specificity: This p53 antibody recognizes a 53kDa protein, which is identified as p53 suppressor gene product. The antibody reacts with the mutant as well as the wild form of p53 under denaturing and non-denaturing conditions. The epitope maps within the N-terminus (aa 20-25) of p53 oncoprotein.

<u>Catalog Number</u>	<u>Volume</u>
A00109-C.1	0.1 ml
A00109-C	1 ml

**Placental Alkaline Phosphatase (PLAP); Clone ALP/870 (Concentrate)**

Species: Mouse

Immunogen: Recombinant human PLAP protein

Clone: ALP/870

Isotype: IgG2b, kappa

Species Reactivity: Human. Others not known.

Positive Control: HepG2 cells. Placenta or seminoma.

Specificity: Reacts with a 70kDa membrane-bound isozyme (Regan and Nagao type) of Placental Alkaline Phosphatase (PLAP) occurring in the placenta during the 3rd trimester of gestation. It is highly specific for PLAP and shows no cross-reaction with other isozymes of alkaline phosphatase.

<u>Catalog Number</u>	<u>Volume</u>
A00154-C.1	0.1 ml

**Renal Cell Carcinoma (RCC); Clone 66.4.C2 (Concentrate)**

Species: Mouse

Clone: 66.4.C2

Isotype: Mouse IgG2b, Kappa

Species Reactivity: Human, Horse. Others not tested.

Positive Control: Kidney.

Specificity: The actual protein recognized by RCC-ma antibody is a 200 kDa glycoprotein (gp200) expressed in renal epithelial cells. In normal tissue, the renal cell carcinoma/RCC-ma/gp200 antibody stains the brush border of proximal renal tubules in human kidneys. Gp200 is also expressed in some non-kidney tissues including breast tubules and ducts, the surface of epididymal tubular epithelia, and the colloid of thyroid follicles. However because of the reported high expression of gp200 in renal cell carcinoma, gp200 is most commonly referred to as Renal Cell Carcinoma Marker.

<u>Catalog Number</u>	<u>Volume</u>
A00118-C.1	0.1 ml
A00118-C	1 ml



**S-100; Clone 4C4.9 (Concentrate)**

Species: Mouse Monoclonal  
 Clone: 4C4.9  
 Isotype: IgG2a  
 MW: 21-24 kD  
 Species Reactivity: Human, Cow, Mouse  
 Positive Control: Melanoma or Schwannoma.

Specificity: Recognizes proteins of 21-24kDa, identified as the A and B subunits of S100 protein. S100 belongs to the family of calcium binding proteins such as calmodulin and troponin C. S100A is composed of an alpha and beta chain whereas S100B is composed of two beta chains. Antibody to S100 stains Schwannomas, ependymomas, astroglomas, almost all benign and malignant melanomas and their metastases. S100 protein is also expressed in the antigen presenting cells such as the Langerhans cells in skin and interdigitating reticulum cells in the paracortex of lymph nodes. S100 protein is highly soluble and may be eluted from frozen tissue during staining.

<u>Catalog Number</u>	<u>Volume</u>
A00087-C.1	0.1 ml
A00087-C	1 ml

**Secretory Component; Clone SC05 (Concentrate)**

Species: Mouse  
 Clone: SC05  
 Isotype: IgG1, Kappa  
 Species Reactivity: Human, Rat. Others not tested.  
 Positive Control: Breast carcinoma, Lung, Stomach.  
 Specificity: This antibody reacts with both free and bound secretory component to secretory IgA.

<u>Catalog Number</u>	<u>Volume</u>
A00127-C	1 ml

**SOX10; Clone SOX10/991 (Concentrate)**

Species: Mouse  
 Immunogen: Recombinant human SOX10 protein fragment (aa115-269) (exact sequence is proprietary).  
 Clone: SOX10/991  
 Isotype: IgG2b, Kappa.  
 Species Reactivity: Human and Mouse. Others-not known.  
 Positive Control: HepG2 cells, Melanoma, breast carcinomas, gliomas.  
 Specificity: Recognizes a protein of ~55kDa, identified as SOX10. This antibody does not cross-react with other members of the SOX-family.

<u>Catalog Number</u>	<u>Volume</u>
A00161-C.1	0.1 ml
A00161-C	1 ml

**Thyroglobulin; Clone 2H11 (Concentrate)**

Species: Mouse  
 Clone: 2H11  
 Isotype: IgG1, Kappa  
 Species Reactivity: Human  
 Cellular Localization: Cytoplasmic  
 Specificity: Thyroglobulin is a 660 kDa dimeric preprotein with multiple glycosylation sites is produced by and processed within the thyroid gland to produce the hormone thyroxine and triiodothyronine. Prior to forming dimers, thyroglobulin monomers undergo conformation maturation in the endoplasmic reticulum. Thyroglobulin dimerization as well as transport of thyroglobulin to the Golgi complex is calcium dependent. Thyroglobulin defects resulting from defective dimer formation and export to the Golgi is thought to cause some types of goiter. Antibody against thyroglobulin may be produced by individuals with other diseases arising from the gland such as Hashimoto's or Graves disease. Hence the presence of thyroglobulin autoantibodies can help to identify disease. Antibody to thyroglobulin has been shown to be useful for the identification of papillary and follicular thyroid carcinoma; thyroglobulin antibody positive lesions are of thyroidal origin. Carcinomas of nonthyroidal origin do not express thyroglobulin and hence are thyroglobulin antibody negative. It is important to note though that not every type of thyroidal lesion is thyroglobulin antibody positive, a number of forms are negative. Hence a negative result does not necessarily rule out that a given lesion or metastasis originated from the thyroid gland.

<u>Catalog Number</u>	<u>Volume</u>
A00108-C	1 ml

**TTF-1; Clone 8G7G3/1 (Concentrate)**

Species: Mouse  
 Designation: Mouse Monoclonal  
 Clone: 8G7G3/1  
 Isotype: IgG1  
 Species Reactivity: Human. Others not tested.  
 Positive Control: Adenocarcinoma of the Lung or Thyroid.  
 Specificity: This antibody reacts with TTF-1 protein found in adenocarcinomas of the lung and tumors originating in the thyroid. TTF-1 positive cells are found in Type II pneumocytes and Clara cells in the lung. In the thyroid, follicular and parafollicular cells are positive. In lung cancers, Adenocarcinomas are usually positive, while Squamous Cell Carcinomas and Large Cell Carcinomas are rarely positive. In addition, Small-Cell Carcinomas (of any primary site) are usually positive.

<u>Catalog Number</u>	<u>Volume</u>
A00144-C.1	0.1 ml
A00144-C	1 ml

**Tyrosinase; Clone T311 (Concentrate)**

Species: Mouse  
 Clone: T311  
 Isotype: Mouse IgG1  
 Species Reactivity: Human.  
 Positive Control: Human Melanoma  
 Specificity: Tyrosinase has been shown to be a very specific marker for melanomas, not cross reacting with other tumors or normal tissues tested.

<u>Catalog Number</u>	<u>Volume</u>
A00132-C	1 ml



**Uchl1 (PGP9.5); Clone 31A3 (Concentrate)**

Species: Mouse

Clone: 31A3

Isotype: Mouse IgG1, Kappa

Species Reactivity: Cow, Human, Mouse, Pig, Rat.

Positive Control: Brain.

Specificity: The Uchl1 clone 31A3 antibody stains neuronal cell bodies and axons in the central and peripheral nervous systems as well as small nerve fibers in peripheral tissues, including epidermal tissues (Day & Thompson, 2010). The antibody also stains neuroendocrine cells in the kidney, pituitary, thyroid, pancreas, gastrointestinal tract, and tumors of the diffuse neuroendocrine system. This antibody has also identified Uchl1 expression in renal tubule spermatogonia, testis, ovary, and both pregnant and non-pregnant corpus luteum.

<u>Catalog Number</u>	<u>Volume</u>
A00120-C	1 ml

**Multiplex Cocktail****CDX-2 & CEA Multiplex Cocktail; Clones EP25 & COL-1 (Ready-To-Use)**

Species: Rabbit and Mouse

Designation: Cocktail of Rabbit and Mouse Monoclonal Antibodies to CDX-2 and CEA.

Immunogen: Rabbits were injected with a synthetic peptide corresponding to residues near the C-terminus of human CDX-2. BALB/C mice were injected with Human colon carcinoma cell extracts (CEA).

Mol. Weight: Unknown

Clone: EP25 &amp; COL-1

Isotype: Rabbit IgG and Mouse IgG1, respectively.

Species Reactivity: Human

Positive Control: CDX-2: Colon for normal tissue and colon adenocarcinoma for abnormal tissue.

CEA: Adenocarcinoma of colon, intestine, ovary, lung, cervix, gallbladder, stomach.

Specificity: CDX-2 expression is restricted to nuclear staining in positive cells while CEA expression is restricted mostly to the lumen of colorectal crypts. The CEA antibody (COL-1) shows no reaction with a variety of normal tissues. CEA is not found in benign glands, stroma, or malignant prostatic cells. CEA positivity is seen in adenocarcinomas from the lung, colon, stomach, esophagus, gallbladder, urachus, salivary gland, ovary, and endocervix.

<u>Catalog Number</u>	<u>Volume</u>
A00150-0002	2 ml
A00150-0007	7 ml
A00150-0025	25 ml

**CDX2 & Cytokeratin 7 Multiplex Cocktail; Clones EP25 & OV-TL12/30 (Ready-To-Use)**

Species: Rabbit and Mouse

Designation: Cocktail of Rabbit and Mouse monoclonal antibodies to CDX-2 and CK7.

Immunogen: Rabbits were injected with a synthetic peptide corresponding to residues near the C-terminus of human CDX-2. BALB/C mice were injected with OTN11-ovarian cell carcinoma cell line.

Mol. Weight: Unknown

Clone: Clones EP25 and OV-TL12/30

Isotype: Rabbit IgG and Mouse IgG1, respectively.

Species Reactivity: Human

Positive Control: CDX-2: Colon for normal tissue and colon adenocarcinoma for abnormal tissue.

CK7: Carcinoma of ovary, lung, cervix, or breast.

Specificity: CDX-2 expression is restricted to nuclear staining in positive cells while CK7 expression is restricted to most glandular and transitional epithelia including lung, breast, bladder, and the female genital tract and their adenocarcinomas, but not in most gastrointestinal epithelium, prostate, hepatocyte, and squamous epithelium.

<u>Catalog Number</u>	<u>Volume</u>
A00148-0002	2 ml
A00148-0007	7 ml
A00148-0025	25 ml

**TTF-1 & Cytokeratin 5 Multiplex Cocktail; Clones 8G7G3/1 & EP42 (Ready-To-Use)**

Species: Mouse &amp; Rabbit

Designation: Mouse Monoclonal &amp; Rabbit Monoclonal

Clones: 8G7G3/1 &amp; EP42

Isotype: IgG1 &amp; IgG

Species Reactivity: Human. Others not tested.

Positive Control: Adenocarcinoma of the Lung or Thyroid for TTF-1. Skin for normal tissue and Mesothelioma for abnormal tissue for Cytokeratin 5.

Principle: Multiplex IHC staining allows simultaneous testing of two or more analytes on a single tissue section utilizing different colors for each antigenic target.

Specificity: This antibody reacts with TTF-1 protein found in adenocarcinomas of the lung and tumors originating in the thyroid. TTF-1 positive cells are found in Type II pneumocytes and Clara cells in the lung. In the thyroid, follicular and parafollicular cells are positive. In lung cancers, Adenocarcinomas are usually positive, while Squamous Cell Carcinomas and Large Cell Carcinomas are rarely positive. In addition, Small-Cell Carcinomas (of any primary site) are usually positive.

Cytokeratin 5 is expressed in many non-keratinizing stratified squamous epithelia including: basal epithelia, hair follicles, trachea, tongue mucosa, as well as basal cells in prostate glands and myoepithelial cells in mammary glands. Cytokeratin 5 protein is also found in most epithelial and bispasic mesotheliomas, large cell carcinoma and pulmonary squamous cell carcinomas.

This Multiplex cocktail of TTF-1 and Cytokeratin 5 produces two-color high contrast staining for differentiating primary adenocarcinoma of the Lung from Metastatic Carcinomas of the breast and Malignant Mesothelioma.

<u>Catalog Number</u>	<u>Volume</u>
A00145-0002	2 ml
A00145-0007	7 ml
A00145-0025	25 ml

## Polyclonal Ready-to-Use

### Alpha1-Antichymotrypsin

Species: Rabbit Polyclonal

Clone: Polyclonal

Species Reactivity: Human. Shows no cross-reactivity with horse, sheep, swine, goat, cow, dog, cat, chicken, rat, mouse, mink, kangaroo or Guinea pig.

Positive Control: Tonsil

Specificity: This antibody recognizes macrophages and monocytes in human colon, tonsil and skin.

<u>Catalog Number</u>	<u>Volume</u>
A20073	2 ml
A00073	6 ml
A00073.0025	25 ml

### Alpha1-Antitrypsin

Species: Rabbit Polyclonal

Clone: Polyclonal

Species Reactivity: Human and Swine. Stains weakly with horse, dog and mink, and shows no cross-reactivity with sheep, goat, cow, cat, chicken, rat, mouse, kangaroo or Guinea pig.

Positive Control: Tonsil

Specificity: This antibody recognizes macrophages in human colon and tonsil.

<u>Catalog Number</u>	<u>Volume</u>
A20074	2 ml
A00074	6 ml
A00074.0025	25 ml

### Alpha1-Fetoprotein (AFP)

Species: Rabbit Polyclonal

Clone: Polyclonal

Species Reactivity: Human

Specificity: This antibody reacts with alpha-1-fetoprotein. A positive staining in the hepatocytes of fetal tissue was observed. This antibody does not react with other cell or tissue types.

<u>Catalog Number</u>	<u>Volume</u>
A20058	2 ml
A00058	6 ml
A00058.0025	25 ml

### Calcitonin

Species: Rabbit

Clone: Polyclonal

Specificity: This antibody reacts with the mu-chains of human IgM. Nonspecific antibodies have been removed by solid-phase absorption.

<u>Catalog Number</u>	<u>Volume</u>
A20080	2 ml
A00080	6 ml
A00080.0025	25 ml

### CD3, T-Cell; Polyclonal

Species: Rabbit Polyclonal

Clone: Polyclonal

Species Reactivity: Human

Positive Control: Tonsil

Specificity: This antibody reacts with intracytoplasmic portion of the CD3 antigen on the T cells. It stains T cells in cortex as well as medulla of the thymus and lymphoid tissues. This antibody also labels T cell neoplasm, malignant histiocytes and in Hodgkin's disease.

<u>Catalog Number</u>	<u>Volume</u>
A20030	2 ml
A00030	6 ml
A00030.0025	25 ml

### c-erbB-2 Oncoprotein

Species: Rabbit Polyclonal

Clone: Polyclonal

MW: 190 kD

Species Reactivity: Human

Specificity: This antibody reacts with the c-erbB-2 oncoprotein, a 190 kD protein. The proto-oncogene for c-erbB-2 is located on the human chromosome 17, band 21.

<u>Catalog Number</u>	<u>Volume</u>
A20031	2 ml
A00031	6 ml
A00031.0025	25 ml

### Factor VIII Related Antigen

Species: Rabbit Polyclonal

Clone: Polyclonal

MW: 270 kD

Species Reactivity: Human

Positive Control: Blood vessels in skin or intestine

Specificity: Recognizes a multimeric glycoprotein of 270kDa, identified as factor VIII related antigen or von Willebrand factor. This protein has functional binding domains to platelet glycoprotein Ib, glycoprotein IIb/IIIa, collagen and heparin. Von Willebrand factor is synthesized by endothelial cells and stored in the Weibel-Palade granules. It mediates platelet adhesion to injured vessel walls and serves as a carrier and stabilizer for coagulation factor VIII. ScyTek's antibody reacts specifically with the endothelial cells of normal, reactive, and neoplastic blood and lymphatic vessels and shows a finely granular cytoplasmic staining. It also reacts with endocardium, platelets and megakaryocytes. Von Willebrand factor is one of the most useful markers to identify endothelial (or megakaryocytic) lineage of neoplasms. However, because not all endothelial cells synthesize (or store) this molecule, about 30% of tumors of vascular origin fail to stain for factor VIII related antigen, regardless of whether they are benign or malignant.

<u>Catalog Number</u>	<u>Volume</u>
A20059	2 ml
A00059	6 ml
A00059.0025	25 ml

**HbcAg - Hepatitis B Virus Core; Polyclonal**

Species: Rabbit Polyclonal  
 Clone: Polyclonal  
 Species Reactivity: Human

Specificity: This antibody reacts in the nuclei of the liver cells of the Hepatitis type B virus infected patients. However, occasional staining may also be seen in the perinuclear cytoplasm of the infected cells.

<u>Catalog Number</u>	<u>Volume</u>
A20060	2 ml
A00060	6 ml
A00060.0025	25 ml

**IgA; Polyclonal**

Species: Rabbit Polyclonal  
 Clone: Polyclonal  
 Species Reactivity: Human

Specificity: This antibody reacts with alpha-chains of human Ig A. This antibody has been absorbed to a very high level of specificity.

<u>Catalog Number</u>	<u>Volume</u>
A20061	2 ml
A00061	6 ml
A00061.0025	25 ml

**IgG**

Species: Rabbit Polyclonal  
 Clone: Polyclonal  
 Species Reactivity: Human

Specificity: This antibody reacts with gamma-chains of human IgA. Nonspecific antibodies have been removed by solid-phase absorption.

<u>Catalog Number</u>	<u>Volume</u>
A20062	2 ml
A00062	6 ml
A00062.0025	25 ml

**IgM**

Species: Rabbit Polyclonal  
 Clone: Polyclonal  
 Species Reactivity: Human

Specificity: This antibody reacts with the m chains of human IgM. Nonspecific antibodies have been removed by solid-phase absorption.

<u>Catalog Number</u>	<u>Volume</u>
A20063	2 ml
A00063	6 ml
A00063.0025	25 ml

**Kappa Light Chain**

Species: Rabbit Polyclonal  
 Clone: Polyclonal  
 Species Reactivity: Human

Specificity: This antibody reacts with free as well as bound kappa light chains. Contaminating antibodies have been removed by solid phase absorption.

<u>Catalog Number</u>	<u>Volume</u>
A20064	2 ml
A00064	6 ml
A00064.0025	25 ml

**Ki-67 Antigen; Polyclonal (Ready-To-Use)**

Species: Rabbit  
 Immunogen: Synthetic peptide from 62 base pair region of the human Ki-67 antigen.  
 Clone: Polyclonal  
 Species Reactivity: Human.  
 Positive Control: Tonsil or Breast Carcinoma.  
 Specificity: This antibody reacts with a nuclear antigen present in proliferating human cells.

<u>Catalog Number</u>	<u>Volume</u>
A00095-0002	2 ml
A00095-0007	7 ml
A00095-0025	25 ml

**Lambda, Light Chains; Polyclonal (Ready-To-Use)**

Species: Rabbit  
 Immunogen: Lambda light chain isolated from pooled urine of patients with Bence Jones proteinuria.  
 Clone: Polyclonal  
 Isotype: N/A  
 Species Reactivity: Human  
 Positive Control: Tonsil  
 Specificity: This antibody reacts with free as well as bound lambda light chains. Contaminating antibodies have been removed by solid phase absorption.

<u>Catalog Number</u>	<u>Volume</u>
A00065-0002	2 ml
A00065-0007	7 ml
A00065-0025	25 ml

**Lysozyme (Muramidase); Polyclonal (Ready-To-Use)**

Species: Rabbit Polyclonal

Clone: Polyclonal

Species Reactivity: Human, Baboon, Monkey, Pig, Cat, Dog, Mouse and Rat.

Positive Control: Tonsil, colon or skin

Specificity: This polyclonal antibody recognizes a protein, identified as lysozyme, also known as muramidase. This antibody was adsorbed with human plasma and urine proteins to remove the cross-reacting antibodies. Lysozymes synthesized predominantly in reactive histiocytes rather than in resting, unstimulated phagocytes. It labels myeloid cells, histiocytes, granulocytes, macrophages, and monocytes. This antibody is helpful in the identification of myeloid or monocytic nature of acute leukemia.

<u>Catalog Number</u>	<u>Volume</u>
A00033-0002	2 ml
A00033-0007	7 ml
A00033-0025	25 ml

**Myoglobin**

Species: Rabbit Polyclonal

Clone: Polyclonal

Species Reactivity: Human

Specificity: This antibody reacts with human myoglobin. The antibody stains strongly with the skeletal and cardiac muscles. No non-specific staining with other tissues has been observed.

<u>Catalog Number</u>	<u>Volume</u>
A20066	2 ml
A00066	6 ml
A00066.0025	25 ml

**p40 (DeltaNp63); Polyclonal (Ready-To-Use)**

Species: Rabbit

Clone: Polyclonal

Isotype: Rabbit IgG

Species Reactivity: Human.

Cellular Localization: Nuclear.

Specificity: The new marker p40 (DeltaNp63) is highly specific for squamous basal cells.

<u>Catalog Number</u>	<u>Volume</u>
A00112-0002	2 ml
A00112-0007	7 ml
A00112-0025	25 ml

**PSA (Prostate Specific Antigen)**

Species: Rabbit Polyclonal

Clone: Polyclonal

MW: 53 kD

Species Reactivity: Human

Specificity: The antigen used for immunization has been isolated from human seminal fluid. The antibody is well-suited for immunohistochemistry. The performance in ELISA has not been fully investigated. Primary and metastatic prostatic carcinomas show positive staining for PSA, while non-prostatic malignancies do not stain.

<u>Catalog Number</u>	<u>Volume</u>
A20035	2 ml
A00035	6 ml
A00035.0025	25 ml

**S-100; Polyclonal (Ready-To-Use)**

Species: Rabbit

Clone: Polyclonal

Species Reactivity: Human

Specificity: S-100 from ox brain was used for immunization. This antibody reacts strongly with human S100-A and B. Extensive testing shows that this antibody gives strictly specific S-100 labeling of cryostat as well as formalin-fixed, paraffin-embedded section of human tissue. This antibody labels glial cells in the brain and ependymal cells. Moreover, Schwann cells of the peripheral nervous system are positive. Among tumors of the human central and peripheral nervous system, a positive reaction is seen in schwannomas and ependymomas, as well as in different grades of astroglomas including glioblastomas. A large proportion of cells in human tumors originating from different salivary glands are stainable with anti-S-100. S-100 is present in almost all human benign and malignant melanocytic tumors of the skin and in metastases of human malignant

<u>Catalog Number</u>	<u>Volume</u>
A00036-0002	2 ml
A00036-0007	7 ml
A00036-0025	25 ml

**Ubiquitin**

Species: Rabbit Polyclonal

Clone: Polyclonal

Species Reactivity: Human

Specificity: This antibody detects the presence of intracellular ubiquitinated filamentous inclusions in the periphery of senile plaques and neurofibrillary tangles in Alzheimer's disease and Lewy bodies in Parkinson's disease.

<u>Catalog Number</u>	<u>Volume</u>
A20038	2 ml
A00038	6 ml
A00038.0025	25 ml

## Polyclonal Concentrates

---

### **p40 (DeltaNp63); Polyclonal (Concentrate)**

Species: Rabbit

Clone: Polyclonal

Isotype: Rabbit IgG

Species Reactivity: Human.

Cellular Localization: Nuclear.

Specificity: The new marker p40 (DeltaNp63) is highly specific for squamous basal cells.

<u>Catalog Number</u>	<u>Volume</u>
A00112-C	1 ml

# DNA Ploidy Analysis

---

## Blue Feulgen DNA Ploidy Analysis Staining Kit

The Blue Feulgen DNA Ploidy Analysis Staining Kit is a histochemical reagent kit for quantifying the nuclear DNA content in cells. The kit can be used on a variety of specimen types from cytocentrifuge preparations to formalin fixed paraffin embedded tissue sections. A unique formulation eliminates dye precipitation and results in a cleaner stain than conventional Feulgen reagent-based kits. This stain kit is optimized for DNA Ploidy specimens that will be stained then scanned and viewed on image analysis systems.

The basis of the Feulgen staining procedure is the use of an acid hydrolysis step to remove purines from the deoxyribose backbone of the DNA molecule. The newly exposed deoxyribose sugars have an aldehyde group, and this can then be identified by staining with a Schiff reagent (in this case, an aqueous solution of cresyl-violet and sulfurous acid used to test for the presence of aldehydes).

The amount of stain color developed is directly proportional to the amount of DNA present in the stained cells.

Storage: 2-8 deg. C.

Kit Contents: 2 x 500ml Bottles of Ready-To-Use Liquid Stain  
10 vials of Decolorizer  
10 vials of Rinse Buffer

<u>Catalog Number</u>	<u>Volume</u>
DPK500	1 kit(s)
DPK500-5	5 kit(s)

# Histology

## Equipment (Hist.)

### Blue Base for Dissecting Board

To make dissecting more comfortable, this heavy-duty base is used to elevate the DissecTable Board to the right height. The bases are stackable and will not move sideways during the dissecting work. The base will also retain excess fluid if necessary.

Dimensions: 481 mm x 656 mm x 91 mm (19 1/4 x 26 1/4 x 3 5/8 in H)

<u>Catalog Number</u>	<u>Volume</u>
M625	1 ea.

### Cassettes in QuickLoad Sleeves

The sleeved cassettes are especially made to be used with ThermoFisher printers. Cassettes with tape are to be used with Leica and Sakura Ink Jet printers. Molded from a special high density acetal polymer, they keep specimens safely submerged and are totally resistant to the chemical action of solvents used in histology laboratories. The efficient flow-through slots maximize fluid exchange and ensure proper reagent drainage.

<u>Catalog Number</u>	<u>Volume</u>
M480-8SL-TAN	1 ea.
M480-9SL-GRAY	1 ea.
M480-5SL-YELLOW	1 ea.
M480-4SL-GREEN	1 ea.
M480-7SL-PEACH	1 ea.
M480-10SL-GRAY	1 ea.
M480-3SL-PINK	1 ea.
M480-2SL-WHITE	1 ea.
M480-11SL-ORANGE	1 ea.
M480-12SL-AQUA	1 ea.
M480-6SL-BLUE	1 ea.

### CoreDish for Lower GI Track Biopsies

For lower GI track biopsies. Twelve compartments. An area for patient information is provided. Ten labeled compartments: Proximal Flexure Colon, Hepatic Flexure Colon, Distal Transverse Colon, Ascending Colon, Splenic flexure Colon, Cecum, Descending Colon, Terminal Ileum, Rectum, Sigmoid Colon. Leakproof seal, thanks to O-ring lid, allows for safe and easy transport of the specimens from collection to analysis.

Made of polystyrene.

Qty/Cs 10

<u>Catalog Number</u>	<u>Volume</u>
M970-D12LGIPREFILLE	1 Case(s)
M971-D12LGI	1 Case(s)

### CoreDish for Prostate Biopsies

Few recommendations concerning how the biopsies should be handled have been published. Performing a large number of biopsies means an increase in the number of containers handled and consequently a technical overload of the transmission network, which occurs without any financial counterpart. A new approach had to be developed in order to increase productivity.

Simport is proud to offer a multi-compartment container for prostate biopsies. The CoreDish is in the shape of a dish measuring only 15 mm high x 95 mm diameter and is half prefilled with 10% Neutral Buffered Formalin. The screw on lid incorporates an O-ring in order to make it leakproof and protect its contents. The CoreDish conforms to OSHA directives. An area for patient information is provided on the label. Each compartment is clearly identified to allow proper placement and visualization of the prostate biopsy being inserted. Out of eight compartments, six are labeled: Base, Lateral Base, Medial, Lateral Medial, Apex, Lateral Apex.

Thanks to the CoreDish it is no more necessary to use a multitude of individual containers, thereby reducing risks of confusion.

Qty/Cs 10

<u>Catalog Number</u>	<u>Volume</u>
M970-D8P-PREFILLED	1 Case(s)
M971-D8P	1 Case(s)

### CoreDish Prostate Biopsy Container with 10% Formalin

Few recommendations concerning how the biopsies should be handled have been published. Performing a large number of biopsies means an increase in the number of containers handled and consequently a technical overload of the transmission network, which occurs without any financial counterpart. A new approach had to be developed in order to increase productivity.

Simport is proud to offer a multi-compartment container for prostate biopsies. The CoreDish is in the shape of a dish measuring only 15 mm high x 95 mm diameter and is half prefilled with 10% Neutral Buffered Formalin. The screw on lid incorporates an O-ring in order to make it leakproof and protect its contents. The CoreDish conforms to OSHA directives. An area for patient information is provided on the label. Each compartment is clearly identified to allow proper placement and visualization of the prostate biopsy being inserted. All twelve compartments are labeled:

L Base, R Base, L Lateral Base, R Lateral Base, L Lateral Medial, L Medial, R Medial, R Lateral Medial, L Lateral Apex, L Apex, R Apex, R Lateral Apex.

Thanks to the CoreDish it is no more necessary to use a multitude of individual containers, thereby reducing risks of confusion.

Made of polystyrene.

Qty/Cs 10

<u>Catalog Number</u>	<u>Volume</u>
M970-D12P-PREFILLED	1 Case(s)
M971-D12P	1 Case(s)



### CoreDish Upper GI Tract

Upper GI track biopsy container with 10% formalin. For upper GI track biopsies. Eight compartments. An area for patient information is provided. Seven labeled compartments: Gastric Card, Gastric Body, GE Junction, Gastric ATR, Distal Esophagus, Pylorus, Duodenum. Leakproof seal, thanks to O-ring lid, allows for safe and easy transport of the specimens from collection to analysis. 10 per case.

Made of polystyrene.

<u>Catalog Number</u>	<u>Volume</u>
M970-D8UGI-PREFILLE	1 Case(s)
M971-D8UGI	1 Case(s)

### Dissecting Board

A new and unique approach makes this dissecting board more convenient than any other found on the market today. It is no more necessary to buy different sizes as this board offers a large surface on one side and two smaller ones on the other side.

Made of heavy-duty stain resistant thick polyethylene, it will last for years to come without changing shape, bending or swelling. Will not dull fine surgical blades. In order to contain fluids, a drain groove is carved all around the edge of the DissecTable.

On one side, you will find a large cutting area including dimensional scales in inches and centimeters, along with a 60 x 80 mm grid made of 48 x 10 mm squares. Six dimensional circles are also printed from 1/8 to 5/8 in. and 4 to 14 mm in diameter. Flip it over and the other side offers two cutting boards half the size with the same dimensional features printed on each one of them. All corners have rubber feet giving more stability to the working surface.

Dimensions: 575 mm x 400 mm x 12.5 mm (23 x 16 x 1/2 in H)

<u>Catalog Number</u>	<u>Volume</u>
M620	1 ea.

### Dissecting Board Jr.

A smaller DissecTable is also available with the same features and benefits as the M620. Perfect for smaller counter area.

Dimensions: 330.2 mm x 279.4 mm x 12.5 mm (13 x 11 x 1/2 in H)

<u>Catalog Number</u>	<u>Volume</u>
M618	1 ea.

### EasyDip Slide Staining System

Finally a user-friendly approach for staining your microscope slides, the EasyDip Slide Staining System has two components: a square staining jar and a 12 - position vertical slide rack. Jars can be loosely joined to each other laterally, therefore making sure they are kept in the same order when moved around on the lab counter. As an extra benefit, they are available in 5 different colors to help better identifying contents or applications.

The staining jar being made of resistant acetal plastic will not break like most glass jars do. It will resist most staining agents including alcohol and xylene (but not phenol, iodine or ferric chloride). The wide stable base offers greater stability while the inside is recessed, allowing for a smaller reagent volume of only 80 ml. Easy to clean and no metals to corrode. Ideal for special stains, frozen sections and special processes. Will resist temperatures between -170 C and +121 C. Autoclavable. Dimensions: 64 x 76 x 92 mm H (2 1/2 x 3 x 3 5/8 in. H).

Each case includes 5 jars (one of each color) and 1 rack M905-12DGY.

<u>Catalog Number</u>	<u>Volume</u>
M900-12Y-YELLOW	1 Case(s)
M900-12P-PINK	1 Case(s)
M900-12G-GREEN	1 Case(s)
M900-12B-BLUE	1 Case(s)
M900-12W-WHITE	1 Case(s)
M900-12AS-ASSORTED	1 Case(s)

### EASYDIP Stainless Steel Holder

Made of Stainless Steel. Will hold up to 6 Jars.

<u>Catalog Number</u>	<u>Volume</u>
M906	1 ea.

### Embedding Cassettes

Disposable plastic tissue cassettes are suitable for holding and identifying tissue samples in processing, embedding, and sectioning procedures. The cassettes fit securely in microtome chuck adapters. They are molded from a high density polymer that is totally resistant to the chemical action of histological solvents. These cassettes are designed to accept standard metal lids (cat.# M481) and will keep specimens in complete safety during processing. The slanted writing surface accepts markings easily, permitting sample identification throughout all stages of embedding and long afterwards when in archives. They are available in 11 colors. Each case contains 3 dispenser boxes of 500 cassettes.

<u>Catalog Number</u>	<u>Volume</u>
M480-4-GREEN	1 ea.
M480-12-AQUA	1 ea.
M480-11-ORANGE	1 ea.
M480-10-LILAC	1 ea.
M480-9-GRAY	1 ea.
M480-8-TAN	1 ea.
M480-6-BLUE	1 ea.
M480-3-PINK	1 ea.
M480-5-YELLOW	1 ea.
M480-2-WHITE	1 ea.
M480-7-PEACH	1 ea.

**Heat Extractor with Plastic Knob**

<u>Catalog Number</u>	<u>Volume</u>
IMS006	1 ea.

**Heat Extractor, Stainless Steel, Small**

<u>Catalog Number</u>	<u>Volume</u>
IMS007	1 ea.

**Manual Staining System (12 Wells)**

The Manual Staining System (12 Wells) includes one (1) Stainless Steel base tray and twelve (12) interchangeable plastic wells. Each well comes with a lid to reduce evaporation of reagents between staining. Designed for use with Slide Racks IMS002 or IMS003 (Sold Separately).

<u>Catalog Number</u>	<u>Volume</u>
IMS001	1 ea.

**Metal Lid for M480 Cassette**

Metal Lid for M480 Cassette.  
Qty/Pk 25

<u>Catalog Number</u>	<u>Volume</u>
M481	1 ea.

**Slide Holder Stainless Steel Rack (for 30 Slides)**

Stainless Steel Slide Holder is ideal for use in routine and special stain procedures. Rack holds 30 slides and is designed for use with the Stainless Steel Dish with Cover catalog# IMS004 (sold separately).

<u>Catalog Number</u>	<u>Volume</u>
IMS005	1 ea.

**Slide Master**

(An Innovative Immunohistochemistry Humidity Chamber)

ScyTek Laboratories, Inc. proudly introduces SlideMaster. A humidity chamber designed by a histotechnologist that eliminates the majority of individual slide handling. SlideMaster has three different parts: A humidity chamber, two individual slide holders with white contrast bars, and a waste receptacle. It has been designed so that all three components are compact and easy to use. A maximum of 20 slides can be used per unit.

This is how it works. A hydrophobic barrier (PAP Pen, Catalog #LP0001) is drawn around the tissue section and slides are put in a special slide holder that secures them into place. Drops of antibody are placed on the slides and incubated. After incubation, the individual slide holders can be tilted and secured at a 45 degree angle. All 20 slides are rinsed off in one easy motion and the buffer (PBS-Tween 20, Catalog # ABA125 or TBS-Tween 20, Catalog # TBS125) drains into the waste receptacle. Slides are gently blotted (tissue paper) at the bottom portion of the hydrophobic barrier, which draws off any remaining liquid on the tissue. The slide holders are then placed back in the horizontal position and incubation and rinse steps are repeated in the same fashion.

For chromogen development, the SlideMaster unit has a contrast bar that changes the background from black to white. The black background produces high contrast so that the tissues mounted glass slides can be easily seen, and the white background produces high contrast and allows the technician to monitor the chromogen development. Slides are then rinsed and counterstained and are then ready for coverslipping. SlideMaster is very easy to use. It is light weight and durable.

By making the hydrophobic barrier around the tissue section as small as possible, the total volume of antibody reagent can be significantly reduced per slide. Instead of using 100-200 microliters of antibodies per tissue section usually 50 microliters will completely cover small tissues and 100 microliters will cover larger tissues. With this method, slide staining is much more efficient, more consistent, drying-out of slides is minimized, and the cost of reagents is reduced.

<u>Catalog Number</u>	<u>Volume</u>
E00001	1 ea.

**Slide Rack (24 Slides), Plastic Basket with Metal Handle**

Slide Rack (24 Slides) is designed for use with Manual Staining System (12 Wells) catalog# IMS001 (Sold Separately). The rack consists of a plastic basket with a durable metal handle.

<u>Catalog Number</u>	<u>Volume</u>
IMS002	1 ea.

**Slide Rack (for 24 Slides), Stainless Steel**

Slide Rack (24 Slides) is designed for use with Manual Staining System (12 Wells) catalog# IMS001 (Sold Separately). The rack consists of a stainless steel basket and handle.

<u>Catalog Number</u>	<u>Volume</u>
IMS003	1 ea.

### Slidefile Storage System 100 Positions

Each SlideFile Storage System includes a slide box and a removable tray. A tinted hinged cover makes the contents of the box easy to see at a glance. The base is available in five different colors to help in slide classification and to minimize the possibility of sample mix-up.

The key to the SlideFile System is a removable tray inside the storage box having a hundred individual numbered slots. All slides are stored upright for easier insertion and removal. Simply tilt them forward and backward with one finger to easily and rapidly pick up the slide you need. A unique feature with this system is to be able to read bar codes without having to remove the slides from the box.

For space saving purposes, you can double the amount of slides simply by storing two slides per slot. For maximum storage space, simply remove the tray and line up 400 slides in 3 rows for long term storage. Will resist temperatures between -80 C and +80 C. Not autoclavable.

Dimensions: 82 x 245 x 86 mm H (3 1/4 x 9 5/8 x 3 3/8 in. H)

<u>Catalog Number</u>	<u>Volume</u>
M700-100W-WHITE	1 Case(s)

### Stain Tray Slide Staining System

Made of ABS Plastic

Another user friendly approach to immunohistochemistry staining. This tray is also suitable not only for routine staining requiring a humid chamber but is also ideal for Hematology, Cytology and Microbiology laboratories. Manipulation is made safe and easy by using only one hand.

The StainTray has a black base made of tough ABS plastic withstanding a wide range of chemicals (Avoid chlorinated hydrocarbons). It will accept up to 20 slides on four plastic rails covered with a polymer strip to perfectly hold slides even if tray is held at an angle. When humidity is needed, wells between rails will hold up to one ml of water securely without splashing. Middle wells will hold up to 2 ml each. Rails are raised not only to avoid water touching the slides but to make them more easily retrieveable. The base will also hold excess stain solution dripping from the slides. Four rubber feet ensure greater base stability. Units are stackable for space saving purposes.

Two covers are available:

A clear one (M920-1) allowing for visual examination. Made of PETG with a temperature range of -20 C to +60 C.

A black lid (M920-2) for fluorescent work. Made of ABS with a temperature range of -80 C to +80 C.

Dimensions with cover: 38 W x 24 D x 4.5 H cm (15 W x 9 3/8 D x 1 3/4 H in.)

<u>Catalog Number</u>	<u>Volume</u>
M920-1	1 Clear
M920-2	1 Black

### Stainless Steel Dish with Cover (for 30 Slide Holder)

Stainless Steel Dish with Cover is ideal for use in routine and special stain procedures.

<u>Catalog Number</u>	<u>Volume</u>
IMS004	1 ea.

### Vertical Slide Staining Rack Dark Gray

The EasyDip Slide Staining Rack will hold up to 12 microscope slides with dimensions such as 75 x 25 mm, (3 x 1 in.) and even 76 x 26 mm and with a thickness of 1.0 and 1.2 mm. The slides fit into individual slots for free passage and rapid drainage of staining fluids. Since they are placed vertically in the rack and not horizontally, their writing area will not be stained by the fluid, allowing their removal without the use of forceps. The lid completely covers the EasyDip Slide Staining Jar to minimize spill and evaporation. A handle is permanently attached to the rack for easy insertion and removal of slides without your fingers touching the solution. Available in dark gray only. Will resist temperatures between -170 C and +121 C. Autoclavable. Dimensions: 60 x 64 x 97 mm H (2 1/4 x 2 1/2 x 3 3/4 in. H).

<u>Catalog Number</u>	<u>Volume</u>
M905-12DGY	1 Case(s)

## Fixing Fluids

### Bouin's Fluid

Bouin's Fluid is a fixative useful for several routine procedures. It contains formaldehyde and picric acid for both cytoplasmic and chromatin fixation and facilitates excellent H&E staining. It has also been recommended for any general fixation procedures and may be used as a substitute for Zenker's Fluid. It is also used as a post-fixation step that is critical for the bright coloration demonstrated with Trichrome special stain procedures.

<u>Catalog Number</u>	<u>Volume</u>
BNF125	125 ml
BNF500	500 ml
BNF999	1000 ml
BNF3800	1 Gal.

### Formalin (10% Neutral Buffered)

Formalin (10% Neutral Buffered) is one of the most widely used fixatives for the prevention of tissue degradation. Proper fixation is critical for histopathologic procedures and evaluation. This reagent contains formaldehyde and phosphate buffers in an aqueous solution.

<u>Catalog Number</u>	<u>Volume</u>
FRN125	125 ml
FRN500	500 ml
FRN999	1000 ml
FRN3800	1 Gal.

### Mer/Cure (Stabilized Iodine Solution)

Is a single component reagent for the rapid removal of mercury crystals from tissue sections fixed with mercury containing fluids (ie. B5, or Zenker's).

<u>Catalog Number</u>	<u>Volume</u>
MSI500	500 ml

### Zinc Formalin Solution

Zinc Formalin is a tissue fixative for routine procedures.

<u>Catalog Number</u>	<u>Volume</u>
ZFN500	500 ml
ZFN999	1000 ml

## Transport Media

### CytoPort, Cytology Transport Media

This reagent is intended for use as a transport media for mammalian cells for subsequent testing. Samples may be transported at room temperature.

<u>Catalog Number</u>	<u>Volume</u>
CTM500	500 ml
CTM999	1000 ml

### Michel's Transport Fluid

Michel's Transport Fluid is intended for use as a transport media of specimens (such as renal biopsies and lymph nodes) for immunofluorescence studies. Samples may remain in media for up to 5 days at room temperature. This reagent is not a fixative and is not suitable for transporting live cells for flow cytometry. Prior to processing, specimens should be washed in 3 changes of Michel's Transport Wash Buffer (cat.# MTW) for 10 minutes each.

<u>Catalog Number</u>	<u>Volume</u>
MTF500	500 ml
MTF999	1000 ml
MTF-10000	10 L
MTF-20000	20 L

### Michel's Transport Wash Buffer

This reagent is intended for use as a wash buffer for Michel's Transport Fluid. Michel's Transport Fluid is intended for use as a transport media of specimens (such as renal biopsies and lymph nodes) for immunofluorescence studies. Samples may remain in media for up to 5 days at room temperature. This reagent is not a fixative and is not suitable for transporting live cells for flow cytometry. Prior to processing, specimens should be washed in 3 changes of Michel's Transport Wash Buffer for 10 minutes each.

<u>Catalog Number</u>	<u>Volume</u>
MTW500	500 ml
MTW999	1000 ml
MTW-10000	10 L
MTW-20000	20 L

## Nuclear Stains

### Bluing Reagent

Is a pH-controlled solution for complete, effective bluing of hematoxylin in histological and cytological procedures.

<u>Catalog Number</u>	<u>Volume</u>
BRT500	500 ml
BRT999	1000 ml
BRT3800	1 Gal.

### Differentiating Solution (Acid Alcohol) - 95%

May be used in the removal of excess hematoxylin stain. Reagents contain 3% (v/v) hydrochloric acid in alcohol.

<u>Catalog Number</u>	<u>Volume</u>
DSN500	500 ml
DSN999	1000 ml

### Hematoxylin, For Automation

Produces a crisp blue nuclei. Hematoxylin, For Automation has been specifically formulated for situations in which a lighter blue nuclei is desired (IHC, etc.). This reagent is ideal for use with autostainers.

<u>Catalog Number</u>	<u>Volume</u>
HAQ500	500 ml
HAQ999	1000 ml

### Hematoxylin, Mayer's (Lillie's Modification)

Produces a crisp dark blue nuclei. A traditional formulation that results in an excellent quality stain that is more intense than our Hematoxylin, For Automation (catalog# HAQ999). For optimal results, use in combination with Bluing Reagent (catalog# BRT999).

<u>Catalog Number</u>	<u>Volume</u>
HMM125	125 ml
HMM500	500 ml
HMM999	1000 ml
HMM3800	1 Gal.

### Hematoxylin, Weigert's Iron Kit

Weigert's Iron Hematoxylin is intended to be used with various special stain kits. Product is supplied as a two component (equal volumes of parts A and B) system that is mixed prior to use and results in black/blue nuclei.

<u>Catalog Number</u>	<u>Volume</u>
HWI-1	250 ml
HWI-2	1000 ml
HWI-3	2000 ml

### Methyl Green (Purified) Solution

Single component, Ready-To-Use solution for nuclear staining. Methyl Green (Purified) Solution binds to the DNA resulting in light green nuclei with little or no background staining. This reagent is suitable for use with chromogens that tolerate dehydration and permanent mounting.

<u>Catalog Number</u>	<u>Volume</u>
MGS500	500 ml
MGS999	1000 ml

### Methylene Blue Solution

Methylene Blue Solution has been optimized in our research laboratories to give outstanding results when used in various procedures such as the Ziehl-Neelsen, Fite's, and Gram stain. The stain is also suggested for use in staining a variety of bacteria (Corynebacterium diphtheria, Haemophilus influenzae, Neisseria, etc.) and leukocytes. This reagent produces dark blue nuclei with very light blue cytoplasm.

Nuclei: Dark Blue  
 Cytoplasm: Light Blue  
 Corynebacterium Diphtheria: Blue Granules  
 Escherichia Coli: Blue Rods  
 Streptococcus Pyogenes: Blue Cocci

<u>Catalog Number</u>	<u>Volume</u>
MBS125	125 ml
MBS500	500 ml
MBS999	1000 ml

### Nuclear Fast Red Solution (Enhanced Stability)

Nuclear Fast Red is a stain with histological applications. The reagent has improved stability over current formulations allowing storage at temperatures ranging from 2-30 Centigrade. Current formulations tend to precipitate in cold temperatures such as experienced during winter shipping. In addition, most formulations develop a small amount of precipitate over extended periods of time. This advanced formulation eliminates problems associated with exposure to cold and aging.

Nuclei: Red  
 Cytoplasm: Pale Pink

<u>Catalog Number</u>	<u>Volume</u>
NFS125	125 ml
NFS500	500 ml
NFS999	1000 ml
NFS3800	1 Gal.

## Cytoplasmic Stains

### Eosin Y Solution (Alcoholic)

Eosin Y Solution is intended for use in the histological demonstration of cytoplasm and is commonly used as a counterstain for Hematoxylin. When used correctly, various shades of pink can be obtained to aid in visualization of tissue components. Erythrocytes, collagen, and the cytoplasm of muscle or epithelial cells will stain with different shades of pink.

Cytoplasm: Pink to Red  
 Erythrocytes: Pink to Red  
 Nuclei: Black/Blue (Hematoxylin)

<u>Catalog Number</u>	<u>Volume</u>
EYA500	500 ml
EYA999	1000 ml
EYA3800	1 Gal.

### Eosin Y Solution (Aqueous)

Eosin Y Solution (Aqueous) is intended for use in the histological demonstration of cytoplasm and is commonly used as a counterstain for Hematoxylin. When used correctly, various shades of pink can be obtained to aid in visualization of tissue components. Erythrocytes, collagen, and the cytoplasm of muscle or epithelial cells will stain with different shades of pink.

Cytoplasm: Pink to Red  
 Erythrocytes: Pink to Red  
 Nuclei: Black/Blue (Hematoxylin)

<u>Catalog Number</u>	<u>Volume</u>
EYQ500	500 ml
EYQ999	1000 ml
EYQ3800	1 Gal.

### Eosin Y Solution (Modified Alcoholic)

Eosin Y Solution (Modified Alcoholic) is intended for use in histology and cytology applications. This newly formulated Eosin provides the benefits of a traditional alcoholic formula with significant improvements in usability. Advantages include lower evaporation rate, better color patterns, reduced tendency to spill over container, hands, and countertops, and improved surface tension to remain on tissue section.

Cytoplasm: Light Pink  
 Collagen: Pink  
 Muscle: Pink/Rose  
 Erythrocytes: Pink/Red

<u>Catalog Number</u>	<u>Volume</u>
EYB500	500 ml
EYB999	1000 ml
EYB3800	1 Gal.

### Eosin-Phloxine Solution

Eosin-Phloxine Solution is intended for use in the histological demonstration of cytoplasm. The addition of Phloxine to Eosin results in more vibrant staining than with Eosin alone. When used correctly, Eosin-Phloxine various shades of pink can be obtained to aid in visualization of tissue components.

Cytoplasm: Pink to Red  
 Erythrocytes: Pink to Red  
 Alcoholic Hyalin: Pink

<u>Catalog Number</u>	<u>Volume</u>
EPN500	500 ml
EPN999	1000 ml
EPN3800	1 Gal.

### OG-6 Solution

OG-6 is a cytologic stain routinely used in diagnostic cytology to aid in the identification and classification of exfoliative cells. The stain is used for examining exfoliative cells of vaginal, cervical, sputum, as well as other body secretions. Commonly used in combination with hematoxylin.

<u>Catalog Number</u>	<u>Volume</u>
OGA500	500 ml
OGA999	1000 ml
OGA3800	1 Gal.

## Special Stains

### Special Stain Kits

#### Acid Fast Bacteria (AFB) Stain Kit

The Acid Fast Bacteria (AFB) Stain Kit is intended for use in the histological visualization of Acid Fast Bacteria and Tubercle Bacilli. This kit is a rapid 15-minute procedure. The lipid capsule of the acid-fast organism takes up carbol fuchsin and resists decolorization.

Acid Fast Organisms: Bright Red  
Background: Light Green

<u>Catalog Number</u>	<u>Volume</u>
FAB-2	30 ml ea.
FAB-1	125 ml ea.
FAB-500	500 ml ea.

#### Alcian Blue - PAS Stain Kit

The Alcian Blue - PAS Stain Kit is intended for use in the simultaneous histological visualization of sulfated and carboxylated acid mucopolysaccharides, sulfated and carboxylated sialomucins (glycoproteins) and neutral mucins.

Acidic Sulfated Mucosubstances: Blue  
Hyaluronic Acid: Blue  
Sialomucins: Blue  
Neutral Mucins: Magenta  
Mixtures of Acidic and Neutral Mucins: Blue - Mauve depending on dominant entity.

<u>Catalog Number</u>	<u>Volume</u>
APS-2	100 Slides
APS-1	1 kit(s)

#### Alcian Blue (pH 0.5) Stain Kit

The Alcian Blue (pH 0.5) Stain Kit is intended for use in the histological visualization of very strongly sulfated mucosubstances.

Very Strongly Sulfated Mucosubstances: Blue  
Nuclei: Red  
Background: Pink

<u>Catalog Number</u>	<u>Volume</u>
AFS-1	1 kit(s)

#### Alcian Blue (pH 1.0) Stain Kit

The Alcian Blue (pH 1.0) Stain Kit is intended for use in the histological visualization of strongly sulfated mucosubstances.

Strongly Sulfated Mucosubstances: Blue  
Nuclei: Red  
Background: Pink

<u>Catalog Number</u>	<u>Volume</u>
AFT-2	1 kit(s)
AFT-1	1 kit(s)

#### Alcian Blue (pH 2.5) Staining Kit

The Alcian Blue (pH 2.5) Stain Kit is intended for use in the histological visualization of sulfated and carboxylated acid mucopolysaccharides and sulfated and carboxylated sialomucins (glycoproteins).

Acidic Sulfated Mucosubstances: Blue  
Hyaluronic Acid: Blue  
Sialomucins: Blue  
Nuclei: Red  
Background: Pink

Control: Intestine or Colon.

Contents: Alcian Blue Solution (pH 2.5), 250ml  
Acetic Acid Solution, 500ml  
Nuclear Fast Red, 250 ml

<u>Catalog Number</u>	<u>Volume</u>
AFR-2	30 ml ea.
AFR-1	250 ml ea.

#### Amyloid Stain Kit (Congo Red)

The Amyloid Stain Kit (Congo Red) is intended for use in the histological visualization of amyloid in tissue sections. Examination under a polarizing microscope results in green birefringence of amyloid.

Amyloid: Red to Pink  
Erythrocytes: Light Orange  
Eosinophil Granules: Orange to Red  
Nuclei: Blue

<u>Catalog Number</u>	<u>Volume</u>
AMY-2	1 kit(s)
AMY-1	1 kit(s)

#### Bielschowsky's Stain Kit (Modified)

The Bielschowsky's Stain Kit (Modified) is designed for histological visualization of nerve fibers, neurofibrillary tangles and senile plaques in Alzheimer's disease.

Axons: Black  
Neurofibrillary Tangles: Black  
Senile Plaques: Black  
Nuclei: Dark Brown  
Background: Yellow to Light Brown

<u>Catalog Number</u>	<u>Volume</u>
BSK-1	1 kit(s)

#### Calcium Stain Kit (Modified Von Kossa)

The Calcium Stain Kit (Modified Von Kossa) is intended for use in the histological visualization of calcium deposits in paraffin sections.

Calcium in mass deposits: Black  
Calcium in dispersed deposits: Gray  
Nuclei: Red  
Cytoplasm: Light Pink

<u>Catalog Number</u>	<u>Volume</u>
CVK-2	1 kit(s)
CVK-1	1 kit(s)

### Colloidal Iron Stain Kit

The Colloidal Iron Stain Kit is designed for the histological visualization of acid mucopolysaccharides.

Acid Mucopolysaccharides: Bright Blue  
Collagen: Shades of Red

<u>Catalog Number</u>	<u>Volume</u>
CIK-2	100 Slides
CIK-1	1 kit(s)

### Copper Stain Kit

The Copper Stain Kit is intended for the demonstration of copper deposits in tissue sections.

Copper Deposits: Light Brown to Red  
Nuclei: Blue

<u>Catalog Number</u>	<u>Volume</u>
CSK-2	1 kit(s)
CSK-1	1 kit(s)

### Elastic Stain Kit (Modified Verhoff's)

The Elastic Stain Kit is intended for use in histological demonstration of elastin in tissue sections. Demonstration of elastic tissue is useful in cases of emphysema (atrophy of elastic tissue), arteriosclerosis (thinning and loss of elastic fibers) and various other vascular diseases.

Elastic fibers: Black to Blue/Black  
Nuclei: Blue to Black  
Collagen: Red  
Muscle & Other: Yellow

<u>Catalog Number</u>	<u>Volume</u>
ETS-2	1 kit(s)
ETS-1	1 kit(s)

### Eosinophil - Mast Cell Stain Kit

The Eosinophil - Mast Cell Stain Kit is intended for simultaneous visualization of eosinophils and mast cells.

Mast Cells: Bright Blue  
Eosinophils: Bright Red  
Nuclei: Blue

<u>Catalog Number</u>	<u>Volume</u>
CEM-2	1 kit(s)
CEM-1	1 kit(s)

### Fite's Stain Kit

The Fite's Stain Kit (For Leprosy) is intended for use in the histological visualization of mycobacterium leprae (leprosy) and Nocardia.

Lepra bacillus: Red  
Nocardia: Red  
Background: Blue

<u>Catalog Number</u>	<u>Volume</u>
FLS-1	125 ml ea.
FLS-500	500 ml ea.

### Fontana-Masson Stain Kit (For Argentaffin Cells and Melanin)

The Fontana-Masson Stain Kit is intended for use in the histological visualization of Argentaffin cells and Melanin in paraffin or frozen sections.

Argentaffin Cells: Black  
Melanin: Black  
Nuclei: Red  
Cytoplasm: Light Pink

<u>Catalog Number</u>	<u>Volume</u>
FMS-2	1 kit(s)
FMS-1	1 kit(s)

### Giemsa Stain Kit (May-Grunwald)

The Giemsa Stain Kit (May-Grunwald) is intended for use in the visualization of cells present in hematopoietic tissues and certain microorganisms. This kit may be used on formalin-fixed, paraffin-embedded sections.

Nuclei: Blue/Violet  
Cytoplasm: Light Blue  
Collagen: Pale Pink  
Muscle Fibers: Pale Pink  
Erythrocytes: Gray, Yellow or Pink  
Rickettsia: Reddish-Purple  
Helicobacter Pylori: Blue  
Mast Cells: Dark Blue with Red Granules

<u>Catalog Number</u>	<u>Volume</u>
GMG-2	100 Slides
GMG-1	1 kit(s)

### GMS Stain Kit

The Modified Gomori Methenamine-Silver Nitrate Stain (GMS Stain Kit) is intended for use in the histologic visualization of fungi, basement membrane and some opportunistic organisms such as Pneumocystis carinii.

<u>Catalog Number</u>	<u>Volume</u>
KAA-1	125 ml ea.
KAA-500	500 ml ea.
KAA-1000	1000 ml ea.

### Gram Stain Kit

The Gram Stain Kit is intended for the demonstration and differentiation of Gram-positive and Gram-negative bacteria.

Gram Positive Bacteria: Blue  
Gram Negative Bacteria: Red  
Other Tissue: Yellow  
Nuclei: Red

<u>Catalog Number</u>	<u>Volume</u>
GSK-2	30 ml ea.
GSK-1	125 ml ea.
GSK-500	500 ml ea.



### Gram Stain Kit (Modified Brown & Brenn)

The Gram Stain Kit (Modified Brown & Brenn) is intended for the demonstration and differentiation of Gram-positive and Gram-negative bacteria.

Gram Positive Bacteria: Blue  
 Gram Negative Bacteria: Red  
 Other Tissue: Slightly Yellow - Pink  
 Nuclei: Red

<u>Catalog Number</u>	<u>Volume</u>
BBS-2	30 ml ea.
BBS-1	125 ml ea.
BBS-500	500 ml ea.

### H. Pylori Rapid Stain (1-Step)

The H. Pylori Rapid Stain (1-Step) is a single component reagent that has been developed to identify helicobacter pylori in a procedure that requires less than 10 minutes to complete. Procedure is effective for fresh, frozen, and paraffin embedded sections. Helicobacter Pylori has been shown to be the causative organism in some gastric ulcers.

H. Pylori: Dark Blue/Purple  
 Cytoplasm: Pink to Red  
 Background: Violet  
 Nuclei: Blue

<u>Catalog Number</u>	<u>Volume</u>
HPS030	30 ml
HPS500	500 ml
HPS999	1000 ml

### H. Pylori Rapid Stain Kit

The H. Pylori Rapid Stain Kit is designed for demonstrating Helicobacter Pylori infected tissue. Kit may be used on formalin fixed, paraffin-embedded tissue. The Warthin-Starry Stain Kit (WSS-1) is a more sensitive system for H. Pylori and is suggested for cases where total H. Pylori count is low.

Results:  
 Helicobacter Pylori: Blue  
 Mucin: Yellow  
 Background: Light Blue

<u>Catalog Number</u>	<u>Volume</u>
AYH-2	100 Slides
AYH-1	1 kit(s)

### Hematoxylin and Eosin Stain Kit

The Hematoxylin and Eosin Stain Kit is intended for use in histology and cytology applications. Included in this kit is a newly formulated Eosin that provides the benefits of a traditional alcoholic formula with significant improvements in usability. Advantages include lower evaporation rate, better color patterns, reduced tendency to spill over container, hands, and countertops, and improved surface tension to remain on tissue section. Our Hematoxylin produces crisp, intense blue nuclei providing optimal contrast to the Eosin stained cytoplasm.

Cytoplasm: Light Pink  
 Collagen: Pink  
 Muscle: Pink/Rose  
 Erythrocytes: Pink/Red  
 Nuclei: Blue

<u>Catalog Number</u>	<u>Volume</u>
HAE-2	100 Slides
HAE-1	1 kit(s)

### Iron Stain Kit

The Iron Stain Kit is intended for use in the detection of ferric iron in tissues, blood smears, or bone marrow smears. Ferric iron is normally found in small amounts in bone marrow and the spleen. Abnormally large deposits may be seen in hemochromatosis and hemosiderosis. This product is based on the Prussian Blue reaction in which ionic iron reacts with acid ferrocyanide producing a blue color.

Tissue Sections:

Iron: Bright Blue  
 Nuclei: Red  
 Background: Pink

<u>Catalog Number</u>	<u>Volume</u>
IRN-2	100 Slides
IRN-1	1 kit(s)

### Jones Stain Kit (For Basement Membrane)

The Jones Stain Kit is intended for use in histological demonstration of the basement membrane and reticular fibers. This procedure is ideal for staining renal glomerular basement membranes. The main function of the basement membrane and reticular fibers is to provide anchorage and support. They are normally found throughout the body, particularly in the kidney, spleen, and lung.

Basement Membrane: Black  
 Reticulum Fibers: Black  
 Nuclei: Red  
 Cytoplasm: Light Pink

<u>Catalog Number</u>	<u>Volume</u>
JSK-1	1 kit(s)

### Luxol Fast Blue Stain Kit

The Luxol Fast Blue Stain Kit is designed for staining myelin/myelinated axons and Nissl substance on formalin fixed, paraffin-embedded tissue. This product is used for identifying the basic neuronal structure in brain or spinal cord sections.

<u>Catalog Number</u>	<u>Volume</u>
LBC-2	1 kit(s)
LBC-1	1 kit(s)

### Movat Pentachrome Stain Kit (Modified Russell-Movat)

The Movat Pentachrome Stain Kit (Modified Movat) is intended for use in histological demonstration of collagen, elastin, muscle, mucin and fibrin in tissue sections. This procedure is particularly useful when studying the heart, blood vessels and various vascular diseases.

Elastic Fibers:	Black to Blue/Black
Nuclei:	Blue/Black
Collagen:	Yellow
Reticular Fibers:	Yellow
Mucin:	Bright Blue
Fibrin:	Bright Red
Muscle:	Red

<u>Catalog Number</u>	<u>Volume</u>
MPS-2	1 kit(s)
MPS-1	1 kit(s)

### Mucicarmine Stain Kit (Modified Southgate's)

Mucicarmine Stain Kit (Modified Southgate's) is intended for use in the histological visualization of acid mucopolysaccharides in tissue sections. This product is useful in distinguishing mucin negative undifferentiated squamous cell lesions from mucin positive adenocarcinomas. In addition, this product will stain the mucopolysaccharide capsule of *Cryptococcus neoformans*.

Mucin:	Pink/Red
Capsule of <i>Cryptococcus</i> :	Red
Nuclei:	Black/Blue
Other tissue components:	Yellow

<u>Catalog Number</u>	<u>Volume</u>
SMS-2	100 Slides
SMS-1	1 kit(s)

### Oil Red O Stain Kit (For Fat)

Oil Red O Stain Kit (For Fat) is intended for use in the histological visualization of fat cells and neutral fat. This kit may be used ONLY on frozen tissue sections, fresh smears, or touch preps.

Fat Cells:	Red
Neutral Fat:	Red
Nuclei:	Blue

<u>Catalog Number</u>	<u>Volume</u>
ORK-2	100 Slides
ORK-1	1 kit(s)

### Orcein Stain Kit (For Hepatitis B and Elastic Fibers)

The Orcein Stain may be used in histology procedures for the visualization of Hepatitis B surface Antigen (HBsAg), elastic fibers, and copper associated proteins. HBsAg appears as irregular shaped aggregates in the cytoplasmic region of the cells. This reagent may be used on formalin-fixed, paraffin-embedded sections.

HBsAg:	Dark Red/Brown
Elastic Fibers:	Dark Red/Brown
Copper Assoc. Proteins:	Dark Red/Brown
Background:	Light Reddish/Purple

<u>Catalog Number</u>	<u>Volume</u>
HBK-2	1 kit(s)
HBK-1	1 kit(s)

### Papanicolaou (PAP) Stain Kit

The Papanicolaou (PAP) Stain Kit is designed to differentiate between a variety of cells in vaginal smears for detection of vaginal, uterine and cervical cancer. In addition, this procedure is valuable for staining a variety of other bodily secretions and cell smears. The procedure was developed in the early 1940's by George Papanicolaou.

Nuclei:	Blue
High Keratin Cells:	Orange
Superficial Cells:	Pink
Erythrocytes:	Dark Pink
Parabasal Cells:	Blue/Green
Intermediate Cells:	Blue/Green
Metaplastic Cells:	May contain both Blue/Green and Pink.

<u>Catalog Number</u>	<u>Volume</u>
PAP-2	1 kit(s)
PAP-1	500 ml ea.
PAP-3	1000 ml ea.

### Periodic Acid Schiff (PAS) Diastase Stain Kit

The Periodic Acid Schiff (PAS) Diastase Stain Kit is intended for use in histological demonstration of lymphocytes and mucopolysaccharides. The  $\alpha$ -Amylase digestion step acts on glycogen to break it into smaller sugars that are then washed off the tissue section allowing visual comparison of digested and undigested slides. The PAS reaction in tissue sections is useful for the demonstration of mucopolysaccharides.

PAS Positive Material:	Magenta
Nuclei:	Blue

<u>Catalog Number</u>	<u>Volume</u>
PAD-2	1 kit(s)
PAD-1	1 kit(s)

### Periodic Acid Schiff (PAS) for Fungus Stain Kit

The Periodic Acid Schiff (PAS) for Fungus Stain Kit is intended for use in histological demonstration of fungal organisms in tissue sections. The PAS reaction is also useful in the demonstration of lymphocytes and mucopolysaccharides. The staining patterns of the lymphocytes are helpful in making therapeutic decisions in established cases of lymphocytic leukemia.

Fungal Organisms:	Magenta
PAS Positive Material:	Magenta
Nuclei:	Green/Blue

<u>Catalog Number</u>	<u>Volume</u>
PASF-2	1 kit(s)
PASF-1	1 kit(s)

### Periodic Acid Schiff (PAS) Stain Kit

The Periodic Acid Schiff (PAS) Stain Kit is intended for use in histological demonstration of lymphocytes and mucopolysaccharides. The staining pattern of the lymphocytes are helpful in making therapeutic decisions in established cases of lymphocytic leukemia. The PAS reaction in tissue sections is useful for the demonstration of mucopolysaccharides. PAS staining may also be used for the demonstration of fungal organisms in tissue sections.

PAS Positive Material: Magenta  
Nuclei: Black/Blue

<u>Catalog Number</u>	<u>Volume</u>
PAS-2	30 ml ea.
PAS-1	1 kit(s)
PAS-500	500 ml ea.

### Periodic Acid Schiff (PAS) with Light Green Stain Kit

The Periodic Acid Schiff (PAS) Stain Kit is intended for use in histological demonstration of lymphocytes and mucopolysaccharides. The staining pattern of the lymphocytes are helpful in making therapeutic decisions in established cases of lymphocytic leukemia. The PAS reaction in tissue sections is useful for the demonstration of mucopolysaccharides. PAS staining may also be used for the demonstration of fungal organisms in tissue sections.

PAS Positive Material: Magenta  
Nuclei: Black/Blue

<u>Catalog Number</u>	<u>Volume</u>
PASL-2	1 kit(s)
PASL-1	1 kit(s)

### Picro-Sirius Red Stain Kit (For Cardiac Muscle)

The Picro-Sirius Red Stain Kit (For Cardiac Muscle) is intended for use in the histological visualization of thin septa and collagen fibers. This modification of the Picro-Sirius Red stain eliminates the yellow cytoplasmic staining that can obscure thin collagenous septa. Using this procedure easily allows viewing of collagenous septa as thin as 0.2-0.5 microns. The PSR stain may be viewed using standard light microscopy or polarized light resulting in birefringence of the collagen fibers.

Light Microscopy  
Collagen: Red  
Septa: Red  
Cytoplasm: Colorless to Slightly Yellow

Polarized Light Microscopy  
Collagen Fibers: Yellow-Orange and Green Birefringence

<u>Catalog Number</u>	<u>Volume</u>
SRC-1	1 kit(s)

### Picro-Sirius Red Stain Kit (For Collagen)

The Picro-Sirius Red Stain Kit (For Collagen) is intended for use in the histological visualization of collagen I and III fibers in addition to muscle in tissue sections. The PSR stain may be viewed using standard light microscopy or polarized light resulting in birefringence of the collagen fibers.

Light Microscopy  
Collagen: Red  
Muscle Fibers: Yellow  
Cytoplasm: Yellow

Polarized Light Microscopy  
Collagen Fibers: Yellow-Orange and Green Birefringence

<u>Catalog Number</u>	<u>Volume</u>
PSR-2	1 kit(s)
PSR-1	1 kit(s)

### Pneumocystis Stain Kit

The Pneumocystis Stain Kit is intended for use in the histological visualization of Pneumocystis carinii in cytology smears and paraffin tissue sections. Pneumocystis carinii is an opportunistic pathogen that causes severe pulmonary disease in humans, dogs, rats, mice and other vertebrate species with acquired, induced, or inherited immune deficiency syndromes. In addition, this procedure will demonstrate Actinomyces and related species, Nocardia asteroides, and certain encapsulated bacteria.

Pneumocystis carinii: Violet / Purple  
Connective Tissue: Blue / Green  
Erythrocytes: Yellow  
Mucin: Rose / Purple  
Cartilage: Rose / Purple

<u>Catalog Number</u>	<u>Volume</u>
PCS-2	100 Slides
PCS-1	1 kit(s)

### PTAH Stain Kit (Phosphotungstic Acid Hematoxylin)

This kit is designed to demonstrate many collagen, fibrin, muscle striations, cilia and glial fibers without using Zenker's Fixative as a mordant.

Muscle Striations, Fibrin: Blue to Purple  
Glial Fibers, Cilia: Blue to Purple  
Nuclei: Blue to Purple  
Collagen, Elastic Fibers: Light Orange/Salmon to Brownish/Red

<u>Catalog Number</u>	<u>Volume</u>
PTA-2	1 kit(s)
PTA-1	1 kit(s)

### Quick-Dip Differential Stain Kit

The Quick-Dip Differential Stain Kit provides three reagents for rapid staining of blood smears. Methanol is used to quickly fix smears, followed by differential staining with buffered xanthene and thiazine dyes.

#### Expected Results:

Neutrophils: Violet nuclei with dark violet granules and pink cytoplasmic granules.

Eosinophils: Violet nuclei with dark violet granules and bright red cytoplasmic granules.

Monocytes: Violet nuclei with light blue cytoplasm.

Lymphocytes: Violet nuclei with dark violet granules and light blue cytoplasm.

Basophils: Violet nuclei with light blue cytoplasm.

Erythrocytes: Pink to yellowish-red.

<u>Catalog Number</u>	<u>Volume</u>
QDK-1	500 ml ea.
QDK-GL	1 Gal.

### Reticulum Stain Kit

The Reticulum Stain Kit is intended for use in histological demonstration of reticular fibers. The main function of reticular fibers is to provide support. They are normally found throughout the body, particularly in liver, lymph node, spleen and kidney. Ammoniacal silver stains are the most commonly used methods for demonstration of reticular fibers.

Reticulum: Black

Nuclei: Green

<u>Catalog Number</u>	<u>Volume</u>
GRT-2	1 kit(s)
GRT-1	1 kit(s)

### Reticulum Stain Kit (Modified Gomori's)

The Reticulum Stain Kit (Modified Gomori's) is intended for use in histological demonstration of reticular fibers. The main function of reticular fibers is to provide support. They are normally found throughout the body, particularly in liver, lymph node, spleen and kidney. Ammoniacal silver stains are the most commonly used methods for demonstration of reticular fibers.

Reticulum: Gray/Black

Nuclei: Pink/Red

<u>Catalog Number</u>	<u>Volume</u>
GRS-2	100 Slides
GRS-1	1 kit(s)

### Steiner Stain Kit (For Spirochetes)

The Steiner Stain Kit (For Spirochetes) is designed for demonstrating Fungi, Helicobacter Pylori, Legionella pneumophila, and Spirochete infected tissue. Kit may be used on formalin fixed, paraffin-embedded tissue sections.

Spirochetes: Black to Brown

Helicobacter Pylori: Black to Brown

Fungi: Black to Brown

Legionella pneumophila: Black to Brown

Background: Yellow to Tan

<u>Catalog Number</u>	<u>Volume</u>
SSK-1	1 kit(s)

### Sudan Black B Stain Kit (For Fat)

The Sudan Black B kit is intended for use in the histological visualization of fat cells and neutral fat. This kit may be used ONLY on frozen tissue sections, fresh smears, or touch preps as xylenes and alcohols will dissolve fat deposits.

<u>Catalog Number</u>	<u>Volume</u>
SBK-1	1 kit(s)

### Trichrome Stain Kit (Modified Gomori's)

The Trichrome Stain Kit (Modified Gomori's) is intended for use in the histological visualization of collagenous connective tissue fibers in tissue sections. The Gomori Trichrome is a more simplified procedure than other more traditional trichromes. Additionally, this procedure is useful in the assessment of the degree of fibrosis in liver biopsies.

Collagen: Blue  
Muscle Fibers: Red  
Nuclei: Black/Blue

<u>Catalog Number</u>	<u>Volume</u>
TRG-2	100 Slides
TRG-1	1 kit(s)
TRG-500	500 ml ea.

### Trichrome Stain Kit (Modified Masson's)

The Trichrome Stain Kit (Modified Masson's) is intended for use in histology laboratories for the staining and subsequent visualization of collagenous connective tissue fibers in tissue sections. This Trichrome Special Stain kit may be used on formalin-fixed, paraffin-embedded or frozen sections.

Collagen: Blue  
Muscle Fibers: Red  
Nuclei: Black/Blue

<u>Catalog Number</u>	<u>Volume</u>
TRM-2	30 ml ea.
TRM-1	125 ml ea.
TRM-500	500 ml ea.

### Twort's Counterstain Kit

The Twort's Counterstain Kit is intended for use in histology procedures such as the Gram Stain to provide contrast for easier visualization of various cell components in tissue sections.

Nuclei: Red  
Cytoplasm: Light Green

<u>Catalog Number</u>	<u>Volume</u>
TCK-1	1 kit(s)

**Warthin-Starry Stain Kit**

The Warthin-Starry Stain Kit is intended for use in the visualization of Spirochetes, Helicobacter pylori, Legionella pneumophila, and Cat Scratch Fever bacteria. This kit may be used on formalin-fixed, paraffin-embedded sections.

Helicobacter pylori: Black  
 Legionella pneumophila: Black  
 Spirochetes: Black  
 Cat Scratch Fever Bacteria: Black  
 Klebsiella: Brown/Black  
 Nuclei: Brown  
 Background: Yellow

Catalog Number	Volume
WSS-1	1 kit(s)

**Wright-Giemsa Stain Kit**

Wright-Giemsa Stain Kit is intended to be used for differential staining of blood smears, bone marrow and blood parasites.

Erythrocytes: Pink-Tan  
 Leukocytes: Blue-Purple  
 Neutrophils: Light Purple granules in cytoplasm.  
 Eosinophils: Bright Red-Red-Orange granules in cytoplasm.  
 Basophils: Deep Purple granules in cytoplasm.  
 Platelets: Violet-Purple granules in light blue cytoplasm.

Catalog Number	Volume
WGK-2	1 kit(s)
WGK-1	1 kit(s)

## Special Stain Individual Reagents

**Acetate Buffer Solution, pH 8.0**

Used in the Microwave Copper Stain.

Catalog Number	Volume
SAB500	500 ml
SAB999	1000 ml

**Acetic Acid Solution (0.5%)**

Acetic Acid 0.5% in DI/Distilled water.

Catalog Number	Volume
AAD125	125 ml
AAD250	250 ml
AAD500	500 ml
AAD999	1000 ml

**Acetic Acid Solution (1%)**

Acetic Acid 1.0% in deionized and distilled water.

Catalog Number	Volume
AAE125	125 ml
AAE500	500 ml
AAE999	1000 ml

**Acetic Acid Solution (12%)**

Acetic Acid 12% in deionized/distilled water.

Catalog Number	Volume
AAK500	500 ml
AAK999	1000 ml

**Acetic Acid Solution (3%)**

Acetic Acid Solution (3%) in deionized and distilled water.

Catalog Number	Volume
AAG500	500 ml
AAG999	1000 ml
AAG3800	1 Gal.

**Acetic Alcohol Solution (2%)**

Acetic Acid 2% in ACS reagent grade ethyl alcohol.

Catalog Number	Volume
AAF250	250 ml
AAF500	500 ml
AAF999	1000 ml

**Acid Alcohol Solution (0.5%)**

Catalog Number	Volume
AAL500	500 ml
AAL999	1000 ml

**Acid Alcohol Solution (1%)**

Used in Fite's Stain Kit (Catalog# FLS-1)

Catalog Number	Volume
AAM500	500 ml
AAM999	1000 ml

**Alcian Blue Solution, pH 0.5**

Alcian Blue Solution, pH 0.5 is intended for use in the histological visualization of very strongly sulfated mucosubstances.

Very Strongly Sulfated Mucosubstances: Blue

Catalog Number	Volume
ANB250	250 ml
ANB250	250 ml
ANB500	500 ml
ANB500	500 ml
ANB999	1000 ml
ANB999	1000 ml

**Alcian Blue Solution, pH 1.0**

Alcian Blue Solution, pH 1.0 is intended for use in the histological visualization of strongly sulfated mucosubstances.

Strongly Sulfated Mucosubstances: Blue

Catalog Number	Volume
ANA250	250 ml
ANA500	500 ml
ANA999	1000 ml

**Alcian Blue Solution, pH 2.5**

Application: For demonstration of the acid muco polysaccharides.

Results: Acid mucins are colored blue.

Control: Intestine

<u>Catalog Number</u>	<u>Volume</u>
ANC030	30 ml
ANC250	250 ml
ANC500	500 ml
ANC999	1000 ml
ANC3800	1 Gal.

**Alcian Yellow Solution**

Used in Alcian Yellow for H. Pylori.

<u>Catalog Number</u>	<u>Volume</u>
ANY125	125 ml
ANY500	500 ml
ANY999	1000 ml
ANY3800	1 Gal.

**Alcohol, Reagent (70%)**

<u>Catalog Number</u>	<u>Volume</u>
EAS500	500 ml
EAS999	1000 ml

**Alpha Amylase Solution (1%)**

Component used in the Periodic Acid Schiff (PAS) Diastase Stain Kit (Cat# PAD-1).

<u>Catalog Number</u>	<u>Volume</u>
AAS250	250 ml
AAS500	500 ml
AAS999	1000 ml

**Aniline Blue Solution**

Stains connective tissue and basement membranes. Used in Masson's Trichrome staining procedure (Cat# TRM-1).

<u>Catalog Number</u>	<u>Volume</u>
ABP125	125 ml
ABP500	500 ml
ABP999	1000 ml

**Astra Blue Solution**

Astra Blue Solution is designed to stain mast cells bright blue.

<u>Catalog Number</u>	<u>Volume</u>
AST125	125 ml
AST500	500 ml

**Biebrich Scarlet/Acid Fuchsin Solution**

Used in Masson's Trichrome.

<u>Catalog Number</u>	<u>Volume</u>
BSU125	125 ml
BSU500	500 ml
BSU999	1000 ml

**Borax Solution**

Component of GMS Stain Kit (catalog # KAA-1)

<u>Catalog Number</u>	<u>Volume</u>
BOR015	15 ml
BOR125	125 ml
BOR500	500 ml
BOR999	1000 ml

**Bouin's Fluid**

Bouin's Fluid is a fixative useful for several routine procedures. It contains formaldehyde and picric acid for both cytoplasmic and chromatin fixation and facilitates excellent H&E staining. It has also been recommended for any general fixation procedures and may be used as a substitute for Zenker's Fluid. It is also used as a post-fixation step that is critical for the bright coloration demonstrated with Trichrome special stain procedures.

<u>Catalog Number</u>	<u>Volume</u>
BNF125	125 ml
BNF500	500 ml
BNF999	1000 ml
BNF3800	1 Gal.

**Brilliant Cresyl Blue (0.3%, Alcoholic)**

Brilliant Cresyl Blue (0.3%, alcoholic) is a supravital hematology stain for counting reticulocytes in peripheral blood smears. The number of reticulocytes in the blood is a simple measure of erythropoietic performance. Reticulocytes are immature erythrocytes that contain nuclear remnants of basophilic ribonucleoproteins which decreases as the reticulocyte matures. When stained, reticulocytes appear to contain dark blue granules or filaments.

Reticulocytes: Blue/Green with Dark Blue Granules.  
Erythrocytes: Blue/Green  
Leukocytes: Light Blue

<u>Catalog Number</u>	<u>Volume</u>
BCA500	500 ml
BCA999	1000 ml
BCA3800	1 Gal.

**Brilliant Cresyl Blue (1.5% in 0.85% Saline)**

Brilliant Cresyl Blue (1.5% in 0.85% Saline) is a supravital hematology stain for counting reticulocytes in peripheral blood smears. The number of reticulocytes in the blood is a simple measure of erythropoietic performance. Reticulocytes are immature erythrocytes that contain nuclear remnants of basophilic ribonucleoproteins which decreases as the reticulocyte matures. When stained, reticulocytes appear to contain dark blue granules or filaments.

Reticulocytes: Blue/Green with Dark Blue Granules.  
Erythrocytes: Blue/Green  
Leukocytes: Light Blue

<u>Catalog Number</u>	<u>Volume</u>
BCS500	500 ml
BCS999	1000 ml
BCS3800	1 Gal.

**Carbol Fuchsin (Kinyoun's)**

The Carbol Fuchsin Solution (Kinyoun's) is intended for use in the histological visualization of Acid Fast Bacteria and Tubercle Bacilli. This reagent is a rapid 2-5 minute procedure. The lipid capsule of the acid-fast organism takes up carbol fuchsin and resists decolorization.

Acid Fast Organisms: Bright Red

<u>Catalog Number</u>	<u>Volume</u>
CFK500	500 ml
CFK999	1000 ml

**Carbol Fuchsin Counterstain**

Carbol Fuchsin Counterstain is a component of the Gram Stain Kit, catalog # GSK-1.

<u>Catalog Number</u>	<u>Volume</u>
CFX125	125 ml
CFX500	500 ml
CFX999	1000 ml

**Carbol Fuchsin Solution**

A modified Ziehl-Neelson formulation used for staining acid fast bacteria. This stain is a rapid 15-minute procedure. The lipid capsule of the acid-fast organism takes up carbol fuchsin and resists decolorization.

Acid Fast Organisms: Bright Red

<u>Catalog Number</u>	<u>Volume</u>
CFZ125	125 ml
CFZ500	500 ml
CFZ999	1000 ml

**Carbol Gentian Violet**

Stains acid fast bacteria.

<u>Catalog Number</u>	<u>Volume</u>
CGV500	500 ml
CGV999	1000 ml

**Chromic Acid Solution**

Component of GMS Stain Kit (catalog # KAA-1)

<u>Catalog Number</u>	<u>Volume</u>
CHR125	125 ml
CHR500	500 ml
CHR999	1000 ml

**Colloidal Iron Stock Solution**

Used in the Colloidal Iron staining procedure.

<u>Catalog Number</u>	<u>Volume</u>
CIS125	125 ml
CIS500	500 ml
CIS999	1000 ml

**Congo Red Solution**

Amyloid stain.

<u>Catalog Number</u>	<u>Volume</u>
CRA500	500 ml
CRA999	1000 ml

**Cresyl Echt Violet (1.0%, Aqueous)**

Cresyl Vilet Acetat (1.0%, aqueous) is designed for staining Nissl substance in neurons on farmalin fixed, paraffin-embedded tissue. Nissl granules are purple, nuclei of neuroglia and endothelial cells are slightly bluer than Nissl granules.

Nissl Substance: Violet  
Neuroglia Nuclei: Violet to Dark Blue

<u>Catalog Number</u>	<u>Volume</u>
CEB500	500 ml
CEB999	1000 ml

**Cresyl Echt Violet Solution (0.1%)**

Cresyl Echt Violet Solution (0.1%) is designed for staining Nissl substance in neurons on formalin fixed, paraffin-embedded tissue. Nissl granules are purple, nuclei of neuroglia and endothelial cells are slightly bluer than Nissl granules.

<u>Catalog Number</u>	<u>Volume</u>
CEA125	125 ml
CEA500	500 ml
CEA999	1000 ml

**Crystal Violet Solution**

Stains Nissel granules and basophilia.

<u>Catalog Number</u>	<u>Volume</u>
CVA500	500 ml
CVA999	1000 ml

**Differentiating Solution (For Orcein Stain)**

<u>Catalog Number</u>	<u>Volume</u>
DSA125	125 ml
DSA500	500 ml

**EA-50 Stain Solution**

EA-50 is a cytologic stain routinely used in diagnostic cytology to aid in the identification and classification of exfoliative cells. The stain is used for examining exfoliative cells of vaginal, cervical, sputum, as well as other body secretions. Commonly used in combination with hematoxylin.

Results:

Nuclei: Blue  
Cytoplasm: Various shades of Pink or Green.

<u>Catalog Number</u>	<u>Volume</u>
EAC500	500 ml
EAC999	1000 ml
EAC3800	1 Gal.



**EA-65 Stain Solution**

EA-65 is a cytologic stain routinely used in diagnostic cytology to aid in the identification and classification of exfoliative cells. EA-65 is recommended for specimens with large amounts of mucus. The stain is used for examining exfoliative cells of vaginal, cervical, sputum, as well as other body secretions. Commonly used in combination with hematoxylin.

Results:

Nuclei: Blue  
Cytoplasm: Various shades of Pink or Green.

<u>Catalog Number</u>	<u>Volume</u>
EAD500	500 ml
EAD999	1000 ml
EAD3800	1 Gal.

**Eosin Y Solution (Modified Alcoholic)**

Eosin Y Solution (Modified Alcoholic) is intended for use in histology and cytology applications. This newly formulated Eosin provides the benefits of a traditional alcoholic formula with significant improvements in usability. Advantages include lower evaporation rate, better color patterns, reduced tendency to spill over container, hands, and countertops, and improved surface tension to remain on tissue section.

Cytoplasm: Light Pink  
Collagen: Pink  
Muscle: Pink/Rose  
Erythrocytes: Pink/Red

<u>Catalog Number</u>	<u>Volume</u>
EYB500	500 ml
EYB999	1000 ml
EYB3800	1 Gal.

**Fast Green Solution**

Stains collagen and reticular fibers. Manufactured using certified Fast Green FCF and is provided as a single component, Ready-To-Use reagent.

<u>Catalog Number</u>	<u>Volume</u>
FGN125	125 ml
FGN500	500 ml
FGN999	1000 ml

**Ferric Ammonium Sulfate Solution (2%)**

<u>Catalog Number</u>	<u>Volume</u>
FAS125	125 ml
FAS500	500 ml
FAS999	1000 ml

**Ferric Ammonium Sulfate Solution (3%)**

<u>Catalog Number</u>	<u>Volume</u>
FAT125	125 ml

**Ferric Chloride (10%, Aqueous)**

<u>Catalog Number</u>	<u>Volume</u>
FCC125	125 ml
FCC500	500 ml
FCC999	1000 ml

**Ferric Chloride (2%) Differentiating Solution**

<u>Catalog Number</u>	<u>Volume</u>
FCB125	125 ml
FCB500	500 ml
FCB999	1000 ml

**Formalin Solution (20%)**

Used in the Reticulum Stain Kit (Cat# GRS-1).

<u>Catalog Number</u>	<u>Volume</u>
FRL125	125 ml
FRL500	500 ml
FRL999	1000 ml

**Gelatin (4%), Acidulated**

Component of the Warthin-Starry Stain Kit.

<u>Catalog Number</u>	<u>Volume</u>
GSA125	125 ml

**Gentian Violet Solution**

Gentian Violet Solution is the component of the Gram Stain Kit (catalog# GSK-1) that results in blue staining of the Gram Positive Bacteria. Gentian Violet is intended for the demonstration and differentiation of Gram-positive and Gram-negative bacteria.

<u>Catalog Number</u>	<u>Volume</u>
GVS125	125 ml
GVS500	500 ml
GVS999	1000 ml

**Giemsa Stock Solution**

Component of the Giemsa Stain Kit (May Grunwald) for blood smears.

<u>Catalog Number</u>	<u>Volume</u>
GG5125	125 ml
GG5500	500 ml
GG5999	1000 ml

**Gold Chloride Solution (0.1%)**

Used in Gomori's Reticular stain and Gordon & Sweet's Reticular stain.

<u>Catalog Number</u>	<u>Volume</u>
GCS125	125 ml
GCS500	500 ml
GCS999	1000 ml

**Gold Chloride Solution (0.2%)**

Used in a variety of staining procedures.

<u>Catalog Number</u>	<u>Volume</u>
GCB125	125 ml
GCB500	500 ml
GCB999	1000 ml

**Gram's Decolorizer Solution**

Component used in the Gram Stain Kit.

<u>Catalog Number</u>	<u>Volume</u>
GDS125	125 ml
GDS500	500 ml
GDS999	1000 ml

**Gum Mastic Solution (2.5%)**

<u>Catalog Number</u>	<u>Volume</u>
GUM125	125 ml
GUM500	500 ml

**H. Pylori Rapid Stain (1-Step)**

The H. Pylori Rapid Stain (1-Step) is a single component reagent that has been developed to identify helicobacter pylori in a procedure that requires less than 10 minutes to complete. Procedure is effective for fresh, frozen, and paraffin embedded sections. Helicobacter Pylori has been shown to be the causative organism in some gastric ulcers.

H. Pylori: Dark Blue/Purple  
Cytoplasm: Pink to Red  
Background: Violet  
Nuclei: Blue

<u>Catalog Number</u>	<u>Volume</u>
HPS030	30 ml
HPS500	500 ml
HPS999	1000 ml

**Hematoxylin Solution (5%)**

<u>Catalog Number</u>	<u>Volume</u>
HSV250	250 ml
HSV500	500 ml
HSV999	1000 ml

**Hematoxylin, Weigert's Iron (Part A)**

Component of Hematoxylin, Weigert's Iron Kit.

<u>Catalog Number</u>	<u>Volume</u>
HWI-A-125	125 ml
HWI-A-250	250 ml

**Hematoxylin, Weigert's Iron (Part B)**

Component of Hematoxylin, Weigert's Iron Kit.

<u>Catalog Number</u>	<u>Volume</u>
HWI-B-125	125 ml
HWI-B-250	250 ml

**Hematoxylin, Weigert's Iron Kit**

Weigert's Iron Hematoxylin is intended to be used with various special stain kits. Product is supplied as a two component (equal volumes of parts A and B) system that is mixed prior to use and results in black/blue nuclei.

<u>Catalog Number</u>	<u>Volume</u>
HWI-1	250 ml
HWI-2	1000 ml
HWI-3	2000 ml

**Hydrochloric Acid (1N)**

Hydrochloric Acid (1N) manufactured using deionized/distilled water.

<u>Catalog Number</u>	<u>Volume</u>
HQA125	125 ml
HQA500	500 ml
HQA999	1000 ml

**Hydrochloric Acid Solution (2%)**

Hydrochloric Acid (2%) manufactured using deionized/distilled water. A component of the Iron Stain Kit (cat# IRN-1)

<u>Catalog Number</u>	<u>Volume</u>
HQB500	500 ml
HQB999	1000 ml
HQB3800	1 Gal.

**Hydroquinone (1.5gm)**

Used in a variety of stain procedures.

<u>Catalog Number</u>	<u>Volume</u>
HFS001.5	1.5 gm

**Hydroquinone Solution (0.1%), Acidulated**

Component of the Warthin-Starry Stain Kit.

<u>Catalog Number</u>	<u>Volume</u>
HSA030	30 ml

**Jenner Stock Solution**

For Research Use Only.

Jenner Stock Solution is intended to be used for differential staining of blood smears, bone marrow and blood parasites. This reagent is used in combination with Phosphate Buffer Solution pH 6.8 (cat# PBM) to make a working solution.

**Blood Smear Expected Results**

Neutrophils: Violet nuclei with dark violet granules and pink cytoplasmic granules

Eosinophils: Violet nuclei with dark violet granules and bright red cytoplasmic granules.

Monocytes: Violet nuclei with light blue cytoplasm.

Lymphocytes: Violet nuclei with dark violet granules and light blue cytoplasm.

Basophils: Violet nuclei with light blue cytoplasm.

Erythrocytes: Pink to yellowish-red.

<u>Catalog Number</u>	<u>Volume</u>
JSS500	500 ml
JSS999	1000 ml

**Light Green S.F. Yellowish Solution**

Light Green S.F. Yellowish Solution is intended for use in histological applications as a general counterstain. When used correctly, various shades of green can be obtained to aid in visualization of tissue components.

Cytoplasm: Light Green  
Nuclei: Light Green/Blue

<u>Catalog Number</u>	<u>Volume</u>
LGB500	500 ml
LGB999	1000 ml

**Light Green Solution**

Light Green Solution is intended for use in histological applications as a general counterstain. When used correctly, various shades of green can be obtained to aid in visualization of tissue components.

<u>Catalog Number</u>	<u>Volume</u>
LGA030	30 ml
LGA125	125 ml
LGA500	500 ml
LGA999	1000 ml
LGA3800	1 Gal.

**Light Green Solution (0.1%)**

Light Green Solution (0.1%) is intended for use in histological applications as a counterstain for Grocott's Silver Stain in addition to other procedures. When used correctly, various shades of green can be obtained to aid in visualization of tissue components.

Cytoplasm: Light Green

Nuclei: Light Green/Blue

<u>Catalog Number</u>	<u>Volume</u>
LGD125	125 ml
LGD500	500 ml
LGD999	1000 ml

**Lithium Carbonate Solution (0.05%)**

<u>Catalog Number</u>	<u>Volume</u>
LCQ500	500 ml
LCQ999	1000 ml

**Lugol's Iodine Solution**

<u>Catalog Number</u>	<u>Volume</u>
LIS125	125 ml
LIS500	500 ml
LIS999	1000 ml

**Luxol Fast Blue Solution**

Stains myelinated nerve fibers.

<u>Catalog Number</u>	<u>Volume</u>
LFB125	125 ml
LFB500	500 ml
LFB999	1000 ml

**May-Grunwald Stock Solution**

Component of the Giemsa Stain Kit (May-Grunwald) for blood smears.

<u>Catalog Number</u>	<u>Volume</u>
MAY125	125 ml
MAY500	500 ml
MAY999	1000 ml

**Metanil Yellow (Aqueous Solution)**

Cytoplasmic counterstain.

<u>Catalog Number</u>	<u>Volume</u>
MYQ500	500 ml
MYQ999	1000 ml
MYQ-10000	10 L

**Methenamine Solution**

Component of GMS Stain Kit (catalog # KAA-1). Used in a variety of Special Stain procedures.

<u>Catalog Number</u>	<u>Volume</u>
MET125	125 ml
MET500	500 ml
MET999	1000 ml

**Methyl Green (Purified) Solution**

Single component, Ready-To-Use solution for nuclear staining. Methyl Green (Purified) Solution binds to the DNA resulting in light green nuclei with little or no background staining. This reagent is suitable for use with chromogens that tolerate dehydration and permanent mounting.

<u>Catalog Number</u>	<u>Volume</u>
MGS500	500 ml
MGS999	1000 ml

**Methylene Blue Solution**

Methylene Blue Solution has been optimized in our research laboratories to give outstanding results when used in various procedures such as the Ziehl-Neelsen, Fite's, and Gram stain. The stain is also suggested for use in staining a variety of bacteria (Corynebacterium diphtheria, Haemophilus influenzae, Neisseria, etc.) and leukocytes. This reagent produces dark blue nuclei with very light blue cytoplasm.

Nuclei: Dark Blue  
Cytoplasm: Light Blue  
Corynebacterium Diphtheria: Blue Granules  
Escherichia Coli: Blue Rods  
Streptococcus Pyogenes: Blue Cocci

<u>Catalog Number</u>	<u>Volume</u>
MBS125	125 ml
MBS500	500 ml
MBS999	1000 ml

**Mucicarmine Solution (Southgate's)**

Mucicarmine Solution (Southgate's) is a component of the Mucicarmine Stain Kit (Catalog# SMS-1) and is intended for use in the histological visualization of acid mucopolysaccharides in tissue sections. Mucicarmine Solution is the component responsible for staining Mucin red. This product is useful in distinguishing mucin negative undifferentiated squamous cell lesions from mucin positive adenocarcinomas. In addition, this product will stain the mucopolysaccharide capsule of

<u>Catalog Number</u>	<u>Volume</u>
SMG125	125 ml
SMG500	500 ml
SMG999	1000 ml

### Naphthol Yellow S Solution

Naphthol Yellow S Solution is a component of the Pneumocystis Stain Kit (Catalog# PCS-1) which is intended for use in the histological visualization of Pneumocystis carinii in cytology smears, and paraffin or frozen tissue sections. Naphthol Yellow S Solution is the component responsible for staining the Erythrocytes yellow.

<u>Catalog Number</u>	<u>Volume</u>
NYS125	125 ml
NYS500	500 ml
NYS999	1000 ml

### Nuclear Fast Red Solution (Enhanced Stability)

Nuclear Fast Red is a stain with histological applications. The reagent has improved stability over current formulations allowing storage at temperatures ranging from 2-30 Centigrade. Current formulations tend to precipitate in cold temperatures such as experienced during winter shipping. In addition, most formulations develop a small amount of precipitate over extended periods of time. This advanced formulation eliminates problems associated with exposure to cold and aging.

Nuclei: Red  
Cytoplasm: Pale Pink

<u>Catalog Number</u>	<u>Volume</u>
NFS125	125 ml
NFS500	500 ml
NFS999	1000 ml
NFS3800	1 Gal.

### OG-6 Solution

OG-6 is a cytologic stain routinely used in diagnostic cytology to aid in the identification and classification of exfoliative cells. The stain is used for examining exfoliative cells of vaginal, cervical, sputum, as well as other body secretions. Commonly used in combination with hematoxylin.

<u>Catalog Number</u>	<u>Volume</u>
OGA500	500 ml
OGA999	1000 ml
OGA3800	1 Gal.

### Oil Red O Solution

Oil Red O Solution is a component of the Oil Red O Stain Kit (For Fat) (Catalog# ORK-1) intended for use in the histological visualization of fat cells and neutral fat. This kit may be used ONLY on frozen tissue sections, fresh smears, or touch preps.

<u>Catalog Number</u>	<u>Volume</u>
ORG125	125 ml
ORG500	500 ml
ORG999	1000 ml

### Orcein Solution

Orcein Solution may be used in histology procedures for the visualization of Hepatitis B surface Antigen (HBsAg), elastic fibers, and copper associated proteins. HBsAg appears as irregular shaped aggregates in the cytoplasmic region of the cells. This reagent may be used on formalin-fixed, paraffin-embedded or frozen sections.

HBsAg:	Dark Brown/Purple
Elastic Fibers:	Dark Brown/Purple
Copper Assoc. Proteins:	Dark Purple
Background:	Light Reddish/Purple

<u>Catalog Number</u>	<u>Volume</u>
OAA125	125 ml
OAA500	500 ml
OAA999	1000 ml

### Oxalic Acid Solution (2.0%)

<u>Catalog Number</u>	<u>Volume</u>
OQB125	125 ml
OQB500	500 ml
OQB999	1000 ml

### Oxidizer Solution (For Steiner's Silver Stain)

Component used in Steiner's Silver Stain.

<u>Catalog Number</u>	<u>Volume</u>
SOS125	125 ml
SOS500	500 ml

### Periodic Acid Solution

Periodic Acid Solution is a component of the Periodic Acid Schiff's procedure that is intended for use in histological demonstration of lymphocytes and mucopolysaccharides. The staining pattern of the lymphocytes are helpful in making therapeutic decisions in established cases of lymphocytic leukemia. The PAS reaction in tissue sections is useful for the demonstration of mucopolysaccharides. PAS staining may also be used for the demonstration of fungal organisms in tissue sections.

PAS Positive Material: Magenta  
Nuclei: Black/Blue (Hematoxylin)

<u>Catalog Number</u>	<u>Volume</u>
PAQ250	250 ml
PAQ500	500 ml
PAQ999	1000 ml
PAQ3800	1 Gal.

### Periodic Acid Solution (0.5%)

<u>Catalog Number</u>	<u>Volume</u>
PAA500	500 ml
PAA999	1000 ml

### Phosphate Buffer Solution, pH 6.8

Ready-to-Use solution used in the Giemsa Stain Kit.

<u>Catalog Number</u>	<u>Volume</u>
PBM500	500 ml
PBM999	1000 ml

**Phosphomolybdic Acid Solution (0.2%)**

Component of the Picro-Sirius Red Stain Kit (For Cardiac Muscle).

<u>Catalog Number</u>	<u>Volume</u>
PQA250	250 ml
PQA500	500 ml
PQA999	1000 ml

**Phosphomolybdic/Phosphotungstic Acid Solution**

Used in Masson's Trichrome stain.

<u>Catalog Number</u>	<u>Volume</u>
PPA125	125 ml
PPA500	500 ml
PPA999	1000 ml

**Phosphotungstic Acid Hematoxylin Solution**

This reagent is used in the P.T.A.H. Stain Kit for Microwave to demonstrate collagen, fibrin, muscle striations, cilia and glial fibers.

<u>Catalog Number</u>	<u>Volume</u>
HPA125	125 ml
HPA500	500 ml
HPA999	1000 ml

**Phosphotungstic Acid Solution (5.0%)**

<u>Catalog Number</u>	<u>Volume</u>
PGC250	250 ml
PGC500	500 ml
PGC999	1000 ml

**Picric Acid - Acetone Solution (0.1%)**

Component used in the Gram Stain Kit (Modified Brown & Brenn).

<u>Catalog Number</u>	<u>Volume</u>
PAB125	125 ml
PAB500	500 ml
PAB999	1000 ml

**Picro-Sirius Red Solution**

<u>Catalog Number</u>	<u>Volume</u>
SRS250	250 ml
SRS500	500 ml
SRS999	1000 ml

**Potassium Ferrocyanide Solution (3%)**

Used in the Colloidal Iron staining procedure.

<u>Catalog Number</u>	<u>Volume</u>
PFD125	125 ml
PFD500	500 ml
PFD999	1000 ml

**Potassium Ferrocyanide Solution (5%)**

Used in Iron Stain Kit.

<u>Catalog Number</u>	<u>Volume</u>
PFB500	500 ml
PFB999	1000 ml
PFB3800	1 Gal.

**Potassium Hydroxide Solution (10%)**

Used in Reticulum Stain Kit (Cat# GRS-1).

<u>Catalog Number</u>	<u>Volume</u>
PHC500	500 ml
PHC999	1000 ml

**Potassium Hydroxide Solution (3M)**

<u>Catalog Number</u>	<u>Volume</u>
PHA500	500 ml
PHA999	1000 ml

**Potassium Metabisulfite Solution (3%)**

Used in Reticulum Stain Kit (Cat# GRS-1)

<u>Catalog Number</u>	<u>Volume</u>
PMS125	125 ml
PMS500	500 ml
PMS999	1000 ml

**Potassium Permanganate Solution (0.5%)**

Used in the Reticulum Stain Kit (Cat# GRS-1)

<u>Catalog Number</u>	<u>Volume</u>
PPD250	250 ml
PPD500	500 ml
PPD999	1000 ml

**Potassium Permanganate Solution (1.0%)**

<u>Catalog Number</u>	<u>Volume</u>
PPE125	125 ml
PPE500	500 ml
PPE999	1000 ml

**Potassium Permanganate Solution (5%)**

<u>Catalog Number</u>	<u>Volume</u>
PPG030	30 ml
PPG125	125 ml

**Propylene Glycol**

<u>Catalog Number</u>	<u>Volume</u>
PRG500	500 ml
PRG999	1000 ml
PRG3800	1 Gal.

**Rhodanine Solution (Stock)**

Used in the Microwave Copper Stain (Catalog# CSK-1).

<u>Catalog Number</u>	<u>Volume</u>
RSS030	30 ml
RSS125	125 ml

**Safranin O Solution**

Safranin O Solution is commonly used for counterstaining nuclei red (Hucker's Counterstain).

<u>Catalog Number</u>	<u>Volume</u>
SOH250	250 ml
SOH500	500 ml
SOH999	1000 ml

**Schiff's Solution**

Schiff's Solution is a component of the Periodic Acid Schiff's procedure that is intended for use in histological demonstration of lymphocytes and mucopolysaccharides. The staining pattern of the lymphocytes are helpful in making therapeutic decisions in established cases of lymphocytic leukemia. The PAS reaction in tissue sections is useful for the demonstration of mucopolysaccharides. PAS staining may also be used for the demonstration of fungal organisms in tissue sections.

PAS Positive Material: Magenta  
Nuclei: Black/Blue (Hematoxylin)

<u>Catalog Number</u>	<u>Volume</u>
SRF250	250 ml
SRF500	500 ml
SRF999	1000 ml
SRF3800	1 Gal.

**Silver Nitrate Solution (0.2%)**

Component of the various special stain procedures.

<u>Catalog Number</u>	<u>Volume</u>
SNS125	125 ml
SNS500	500 ml
SNS999	1000 ml

**Silver Nitrate Solution (0.5%), Acidulated**

Component of Warthin-Starry Stain Kit.

<u>Catalog Number</u>	<u>Volume</u>
SNB125	125 ml

**Silver Nitrate Solution (1%)**

Component of Steiner's Silver Stain Kit (cat# SSK-1)

<u>Catalog Number</u>	<u>Volume</u>
SNY125	125 ml
SNY500	500 ml

**Silver Nitrate Solution (10%)**

Used in various staining procedures.

<u>Catalog Number</u>	<u>Volume</u>
SNX009	9 ml
SNX065	65 ml
SNX125	125 ml
SNX500	500 ml

**Silver Nitrate Solution (2%), Acidulated**

Component of Warthin-Starry Stain Kit.

<u>Catalog Number</u>	<u>Volume</u>
SNA030	30 ml

**Silver Nitrate Solution (5%)**

Reagent used in various staining procedures.

<u>Catalog Number</u>	<u>Volume</u>
SNV125	125 ml
SNV500	500 ml

**Sodium Bisulfite Solution**

Component of GMS Stain Kit (catalog # KAA-1)

<u>Catalog Number</u>	<u>Volume</u>
SBC125	125 ml
SBC500	500 ml
SBC999	1000 ml

**Sodium Hydroxide Solution (3.0%)**

<u>Catalog Number</u>	<u>Volume</u>
SHC125	125 ml
SHC500	500 ml
SHC999	1000 ml
SHC3800	1 Gal.

**Sodium Metabisulfite Solution (5%)**

Sodium Metabisulfite Solution (5%) is a component used in the H. Pylori Rapid Stain Kit (Cat# AYH-1).

<u>Catalog Number</u>	<u>Volume</u>
SME125	125 ml
SME500	500 ml
SME999	1000 ml
SME3800	1 Gal.

**Sodium Thiosulfate Solution (5%)**

<u>Catalog Number</u>	<u>Volume</u>
STB125	125 ml
STB500	500 ml
STB999	1000 ml

**SpiroPrep**

Component of the Warthin-Starry Stain Kit.

<u>Catalog Number</u>	<u>Volume</u>
SSE125	125 ml
SSE500	500 ml
SSE999	1000 ml

**Sudan Black B Solution (in Propylene Glycol)**

Sudan Black B (in Propylene Glycol) is intended for use in the histological visualization of fat cells and neutral fat. The product is intended for use on frozen tissue sections, fresh smears, or touch preps.

<u>Catalog Number</u>	<u>Volume</u>
SBG125	125 ml
SBG500	500 ml
SBG999	1000 ml

**Sulfuric Acid Solution (1N)**

Sulfuric Acid Solution (1N) manufactured using deionized/distilled water.

Used in the Reticulum Stain Kit (Cat# GRS-1)

<u>Catalog Number</u>	<u>Volume</u>
SAQ125	125 ml
SAQ500	500 ml
SAQ999	1000 ml

### Tartrazine Solution

Tartrazine Solution is intended for use as a general counterstain in a variety of procedures such as Mucicarmine and Gram stain. Tartrazine provides a light yellow background to aid in the visualization of other stains.

<u>Catalog Number</u>	<u>Volume</u>
TZQ125	125 ml
TZQ500	500 ml
TZQ999	1000 ml

### Toluidine Blue Solution (1% Aqueous)

Toluidine Blue Solution is designed for metachromatic staining of acidic substances.

<u>Catalog Number</u>	<u>Volume</u>
TQF125	125 ml
TQF500	500 ml
TQF999	1000 ml
TQF3800	1 Gal.

### Trichrome Stain (Blue)

Trichrome Stain (Blue) is a stain with histological applications resulting in muscle fibers staining red, and collagen a bright blue.

<u>Catalog Number</u>	<u>Volume</u>
TGB125	125 ml
TGB500	500 ml
TGB999	1000 ml

### Trichrome Stain Solution (Green)

The Trichrome Stain Solution (Green) is a component of the Trichrome Stain Kit (Modified Gomori's) and is intended for use in the histological visualization of collagenous connective tissue fibers in tissue sections.

Collagen: Green  
Muscle Fibers: Red  
Nuclei: Black/Blue (Hematoxylin)

<u>Catalog Number</u>	<u>Volume</u>
TGG125	125 ml
TGG500	500 ml
TGG999	1000 ml

### Twort's Counterstain Kit

The Twort's Counterstain Kit is intended for use in histology procedures such as the Gram Stain to provide contrast for easier visualization of various cell components in tissue sections.

Nuclei: Red  
Cytoplasm: Light Green

<u>Catalog Number</u>	<u>Volume</u>
TCK-1	1 kit(s)

### Van Gieson's Solution

The Van Gieson's Solution is intended for use in the histological visualization of collagen in tissue sections. This reagent is used in many special stain procedures including the Colloidal Iron Stain Kit and the Elastic Stain Kit (Modified Verhoff's).

Collagen: Red  
Muscle Fibers: Yellow  
Cytoplasm: Yellow

<u>Catalog Number</u>	<u>Volume</u>
VGS125	125 ml
VGS500	500 ml
VGS999	1000 ml

### Wright-Giemsa Solution

The Wright-Giemsa Solution is intended for differential staining of blood smears and blood parasites. Use in conjunction with Phosphate Buffer Solution pH 6.8 (cat.# PBM)

<u>Catalog Number</u>	<u>Volume</u>
WGS500	500 ml
WGS999	1000 ml
WGS3800	1 Gal.

### Xylene - Peanut Oil Solution

Used in Fite's Acid-Fast stain for leprosy organisms.

<u>Catalog Number</u>	<u>Volume</u>
XPO125	125 ml
XPO500	500 ml
XPO999	1000 ml

### Zinc Chloride Solution (10%)

Component of the P.T.A.H. Stain Kit for Microwave (Cat# PTA-1).

<u>Catalog Number</u>	<u>Volume</u>
ZCS500	500 ml
ZCS999	1000 ml

### Zinc Formalin Solution

Zinc Formalin is a tissue fixative for routine procedures.

<u>Catalog Number</u>	<u>Volume</u>
ZFN500	500 ml
ZFN999	1000 ml

## Special Stain Control Slides

### Alcian Blue (Control Slides)

<u>Catalog Number</u>	<u>Volume</u>
TCS0002-5	5 Slides
TCS0002-25	25 Slides
TCS0002-100	100 Slides

### Amyloid (Control Slides)

<u>Catalog Number</u>	<u>Volume</u>
TCS0003-5	5 Slides
TCS0003-25	25 Slides
TCS0003-100	100 Slides



**Argentaffin (Control Slides)**

<u>Catalog Number</u>	<u>Volume</u>
TCS0004-5	5 Slides
TCS0004-25	25 Slides
TCS0004-100	100 Slides

**Bielschowsky's (Control Slides)**

<u>Catalog Number</u>	<u>Volume</u>
TCS0006-5	5 Slides
TCS0006-25	25 Slides
TCS0006-100	100 Slides

**Calcium (Control Slides)**

<u>Catalog Number</u>	<u>Volume</u>
TCS0007-5	5 Slides
TCS0007-25	25 Slides
TCS0007-100	100 Slides

**Elastic (Control Slides)**

<u>Catalog Number</u>	<u>Volume</u>
TCS0008-5	5 Slides
TCS0008-25	25 Slides
TCS0008-100	100 Slides

**Fungus (Control Slides)**

Human.  
Natural disease state (where applicable).  
May contain: Aspergillus, Coccidioidomycosis, Microsporidia, or other fungi  
Paraffin embedded.

<u>Catalog Number</u>	<u>Volume</u>
TCS0005-5	5 Slides
TCS0005-25	25 Slides
TCS0005-100	100 Slides

**Helicobacter Pylori (Control Slides)**

<u>Catalog Number</u>	<u>Volume</u>
TCS0011-5	5 Slides
TCS0011-25	25 Slides
TCS0011-100	100 Slides

**Iron - Liver (Control Slides)**

<u>Catalog Number</u>	<u>Volume</u>
TCS0013-5	5 Slides
TCS0013-25	25 Slides
TCS0013-100	100 Slides

**Mast Cell (Control Slides)**

<u>Catalog Number</u>	<u>Volume</u>
TCS0014-5	5 Slides
TCS0014-25	25 Slides
TCS0014-100	100 Slides

**Melanin (Control Slides)**

<u>Catalog Number</u>	<u>Volume</u>
TCS0015-5	5 Slides
TCS0015-25	25 Slides
TCS0015-100	100 Slides

**Mucin (Control Slides)**

<u>Catalog Number</u>	<u>Volume</u>
TCS0016-5	5 Slides
TCS0016-25	25 Slides
TCS0016-100	100 Slides

**PAS/Glycogen (Control Slides)**

<u>Catalog Number</u>	<u>Volume</u>
TCS0017-5	5 Slides
TCS0017-25	25 Slides
TCS0017-100	100 Slides

**PAS/Glycogen, For Digestion (Control Slides)**

<u>Catalog Number</u>	<u>Volume</u>
TCS0024-5	5 Slides
TCS0024-25	25 Slides
TCS0024-100	100 Slides

**Reticulum (Control Slides)**

<u>Catalog Number</u>	<u>Volume</u>
TCS0019-5	5 Slides
TCS0019-25	25 Slides
TCS0019-100	100 Slides

**Trichrome - Colon (Control Slides)**

<u>Catalog Number</u>	<u>Volume</u>
TCS0021-5	5 Slides
TCS0021-25	25 Slides
TCS0021-100	100 Slides

**Trichrome - Liver (Control Slides)**

<u>Catalog Number</u>	<u>Volume</u>
TCS0022-5	5 Slides
TCS0022-25	25 Slides
TCS0022-100	100 Slides

## Slide Master (Hist.)

### EasyDip Slide Staining System

Finally a user-friendly approach for staining your microscope slides, the EasyDip Slide Staining System has two components: a square staining jar and a 12 - position vertical slide rack. Jars can be loosely joined to each other laterally, therefore making sure they are kept in the same order when moved around on the lab counter. As an extra benefit, they are available in 5 different colors to help better identifying contents or applications.

The staining jar being made of resistant acetal plastic will not break like most glass jars do. It will resist most staining agents including alcohol and xylene (but not phenol, iodine or ferric chloride). The wide stable base offers greater stability while the inside is recessed, allowing for a smaller reagent volume of only 80 ml. Easy to clean and no metals to corrode. Ideal for special stains, frozen sections and special processes. Will resist temperatures between -170 C and +121 C. Autoclavable. Dimensions: 64 x 76 x 92 mm H (2 1/2 x 3 x 3 5/8 in. H).

Each case includes 5 jars (one of each color) and 1 rack M905-12DGY.

<u>Catalog Number</u>	<u>Volume</u>
M900-12W-WHITE	1 Case(s)
M900-12Y-YELLOW	1 Case(s)
M900-12P-PINK	1 Case(s)
M900-12G-GREEN	1 Case(s)
M900-12B-BLUE	1 Case(s)
M900-12AS-ASSORTED	1 Case(s)

### EASYDIP Stainless Steel Holder

Made of Stainless Steel. Will hold up to 6 Jars.

<u>Catalog Number</u>	<u>Volume</u>
M906	1 ea.

### Slide Master

(An Innovative Immunohistochemistry Humidity Chamber)

ScyTek Laboratories, Inc. proudly introduces SlideMaster. A humidity chamber designed by a histotechnologist that eliminates the majority of individual slide handling. SlideMaster has three different parts: A humidity chamber, two individual slide holders with white contrast bars, and a waste receptacle. It has been designed so that all three components are compact and easy to use. A maximum of 20 slides can be used per unit.

This is how it works. A hydrophobic barrier (PAP Pen, Catalog #LP0001) is drawn around the tissue section and slides are put in a special slide holder that secures them into place. Drops of antibody are placed on the slides and incubated. After incubation, the individual slide holders can be tilted and secured at a 45 degree angle. All 20 slides are rinsed off in one easy motion and the buffer (PBS-Tween 20, Catalog # ABA125 or TBS-Tween 20, Catalog # TBS125) drains into the waste receptacle. Slides are gently blotted (tissue paper) at the bottom portion of the hydrophobic barrier, which draws off any remaining liquid on the tissue. The slide holders are then placed back in the horizontal position and incubation and rinse steps are repeated in the same fashion.

For chromogen development, the SlideMaster unit has a contrast bar that changes the background from black to white. The black background produces high contrast so that the tissues mounted glass slides can be easily seen, and the white background produces high contrast and allows the technician to monitor the chromogen development. Slides are then rinsed and counterstained and are then ready for coverslipping. SlideMaster is very easy to use. It is light weight and durable.

By making the hydrophobic barrier around the tissue section as small as possible, the total volume of antibody reagent can be significantly reduced per slide. Instead of using 100-200 microliters of antibodies per tissue section usually 50 microliters will completely cover small tissues and 100 microliters will cover larger tissues. With this method, slide staining is much more efficient, more consistent, drying-out of slides is minimized, and the cost of reagents is reduced.

<u>Catalog Number</u>	<u>Volume</u>
E00001	1 ea.

### Slidefile Storage System 100 Positions

Each SlideFile Storage System includes a slide box and a removable tray. A tinted hinged cover makes the contents of the box easy to see at a glance. The base is available in five different colors to help in slide classification and to minimize the possibility of sample mix-up.

The key to the SlideFile System is a removable tray inside the storage box having a hundred individual numbered slots. All slides are stored upright for easier insertion and removal. Simply tilt them forward and backward with one finger to easily and rapidly pick up the slide you need. A unique feature with this system is to be able to read bar codes without having to remove the slides from the box.

For space saving purposes, you can double the amount of slides simply by storing two slides per slot. For maximum storage space, simply remove the tray and line up 400 slides in 3 rows for long term storage. Will resist temperatures between -80 C and +80 C. Not autoclavable.

Dimensions: 82 x 245 x 86 mm H (3 1/4 x 9 5/8 x 3 3/8 in. H)

<u>Catalog Number</u>	<u>Volume</u>
M700-100W-WHITE	1 Case(s)

### Stain Tray Slide Staining System

Made of ABS Plastic

Another user friendly approach to immunohistochemistry staining. This tray is also suitable not only for routine staining requiring a humid chamber but is also ideal for Hematology, Cytology and Microbiology laboratories. Manipulation is made safe and easy by using only one hand.

The StainTray has a black base made of tough ABS plastic withstanding a wide range of chemicals (Avoid chlorinated hydrocarbons). It will accept up to 20 slides on four plastic rails covered with a polymer strip to perfectly hold slides even if tray is held at an angle. When humidity is needed, wells between rails will hold up to one ml of water securely without splashing. Middle wells will hold up to 2 ml each. Rails are raised not only to avoid water touching the slides but to make them more easily retrieveable. The base will also hold excess stain solution dripping from the slides. Four rubber feet ensure greater base stability. Units are stackable for space saving purposes.

Two covers are available:

A clear one (M920-1) allowing for visual examination. Made of PETG with a temperature range of -20 C to +60 C.

A black lid (M920-2) for fluorescent work. Made of ABS with a temperature range of -80 C to +80 C.

Dimensions with cover: 38 W x 24 D x 4.5 H cm (15 W x 9 3/8 D x 1 3/4 H in.)

<u>Catalog Number</u>	<u>Volume</u>
M920-1	1 Clear
M920-2	1 Black

### Vertical Slide Staining Rack Dark Gray

The EasyDip Slide Staining Rack will hold up to 12 microscope slides with dimensions such as 75 x 25 mm, (3 x 1 in.) and even 76 x 26 mm and with a thickness of 1.0 and 1.2 mm. The slides fit into individual slots for free passage and rapid drainage of staining fluids. Since they are placed vertically in the rack and not horizontally, their writing area will not be stained by the fluid, allowing their removal without the use of forceps. The lid completely covers the EasyDip Slide Staining Jar to minimize spill and evaporation. A handle is permanently attached to the rack for easy insertion and removal of slides without your fingers touching the solution. Available in dark gray only. Will resist temperatures between -170 C and +121 C. Autoclavable. Dimensions: 60 x 64 x 97 mm H (2 1/4 x 2 1/2 x 3 3/4 in. H).

<u>Catalog Number</u>	<u>Volume</u>
M905-12DGY	1 Case(s)

## Ancillary (Hist.)

### Methanol

For various laboratory procedures.

<u>Catalog Number</u>	<u>Volume</u>
MTH500	500 ml
MTH999	1000 ml
MTH3800	1 Gal.

### Wash Solution Concentrate (50X)

Wash Solution Concentrate (50x) is designed to provide optimal rinsing of routine or special stains between steps. In addition, this reagent can be used as a dilution buffer for most aqueous stains. This product is compatible with hand staining procedures and most automated systems.

<u>Catalog Number</u>	<u>Volume</u>
WSC999	1000 ml

### Water, Deionized/Distilled

Water for use in laboratory procedures has been deionized, distilled and filtered at 0.2 micrometer for critical assays.

<u>Catalog Number</u>	<u>Volume</u>
DDH999	1000 ml
DDH3800	1 Gal.
DDH-20000	20 L

## Mounting Media (H & C)

### Aqueous Mount

Is formulated for coverslipping sections stained with alcohol soluble chromogens, such as Fast-Red or AEC. Available in convenient dropper top bottles. Coverslips can be removed by soaking in water. No heating is required before use.

<u>Catalog Number</u>	<u>Volume</u>
AMT030	30 ml
AMT060	60 ml
AMT500	500 ml
AMT999	1000 ml

### Aqueous Mount (Low Viscosity)

Is formulated for coverslipping sections stained with alcohol soluble chromogens, such as Fast-Red or AEC. Available in convenient dropper top bottles. Coverslips can be removed by soaking in water. No heating is required before use. Flows more freely than AMT.

<u>Catalog Number</u>	<u>Volume</u>
AML030	30 ml
AML060	60 ml
AML500	500 ml
AML999	1000 ml

### Buffered Glycerol Mounting Media

Buffered Glycerol Mounting Media is a non-drying formulation that is useful in a variety of procedures, such as immunofluorescence, immunohistochemistry, special stains, etc. Coverslips may be easily removed by soaking in water.

No heating is required before use.

Contains no Anti-Fade components.

pH 8.0

<u>Catalog Number</u>	<u>Volume</u>
GMM003	3 ml
GMM030	30 ml
GMM500	500 ml
GMM999	1000 ml

### FluoreGuard Mounting Medium

FluoreGuard Mounting Medium is a water-soluble medium designed for semi-permanent coverslipping of fluorescent slide preparations. FluoreGuard dries to a semi-rigid layer which eliminates tissue damage due to moving coverslips and facilitates long term storage.

<u>Catalog Number</u>	<u>Volume</u>
FMM030	30 ml
FMM060	60 ml
FMM500	500 ml
FMM999	1000 ml

### FluoreGuard Mounting Medium (Hard Set)

FluoreGuard Mounting Medium (Hard Set) is a water-soluble medium designed for semi-permanent coverslipping of fluorescent slide preparations. FluoreGuard dries to a semi-rigid layer which eliminates tissue damage due to moving coverslips and facilitates long term storage.

<u>Catalog Number</u>	<u>Volume</u>
FMH030	30 ml
FMH060	60 ml
FMH500	500 ml
FMH999	1000 ml

### Permanent Mounting Media (Aqueous)

AEC and Fast Red are two of the most commonly used chromogens for peroxidase and alkaline phosphatase based immunostaining systems respectively. However, slides stained with these chromogens cannot be stored permanently. Permanent Mounting Medium (Aqueous) has been designed to overcome this limitation. This product is an aqueous mounting medium with a very high refractive index, which when applied to the stained tissue sections can store the tissue specimens permanently without fading of the chromogens. Because of the superior refractive index, tissues mounted in this medium look like dehydrated specimens. No coverslipping is required. However, if coverslipping is desired, dry slides can be post mounted using an organic based mounting medium. Advantages of this product include: no coverslip, no exposure to the organic fumes, permanent storage of slides and high resolution of tissue specimens. This reagent is compatible with AEC, DAB, Fast Red, BCIP/NBT, BCIP/INT and fluorescent dyes like FITC and phycobiliproteins. High pH ensures increased stability of fluorescence.

<u>Catalog Number</u>	<u>Volume</u>
PMT030	30 ml

## Miscellaneous (H & C)

### KP Marker Plus

Klinipath KP Marker Plus is a solvent resistant marking pen for permanent writing on glass slides, cassettes and other items in the laboratory. One box contains 12 pens.

<u>Catalog Number</u>	<u>Volume</u>
KPM-1	12 Pen(s)

### PAP Pen

This marking pen has been designed to provide a thin film-like barrier when a circle is drawn around the specimen on a slide. This barrier creates the proper surface tension to hold an antibody solution within the target area on the slide. PAP Pen contains a special formulation which is insoluble in alcohol and acetone. It can be removed, if desired, by xylene after the staining procedure is completed.

<u>Catalog Number</u>	<u>Volume</u>
LP0001	1 ea.

### PAP Pen-Mini

This marking pen has been designed to provide a thin film-like barrier when a circle is drawn around the specimen on a slide. This barrier creates the proper surface tension to hold an antibody solution within the target area on the slide. PAP Pen contains a special formulation which is insoluble in alcohol and acetone. It can be removed, if desired, by xylene after the staining procedure is completed.

<u>Catalog Number</u>	<u>Volume</u>
LP0002	1 ea.

# Cytology

## Kits (Cyt.)

### Papanicolaou (PAP) Stain Kit

The Papanicolaou (PAP) Stain Kit is designed to differentiate between a variety of cells in vaginal smears for detection of vaginal, uterine and cervical cancer. In addition, this procedure is valuable for staining a variety of other bodily secretions and cell smears. The procedure was developed in the early 1940's by George Papanicolaou.

Nuclei:	Blue
High Keratin Cells:	Orange
Superficial Cells:	Pink
Erythrocytes:	Dark Pink
Parabasal Cells:	Blue/Green
Intermediate Cells:	Blue/Green
Metaplastic Cells:	May contain both Blue/Green and Pink.

<u>Catalog Number</u>	<u>Volume</u>
PAP-2	1 kit(s)
PAP-1	500 ml ea.
PAP-3	1000 ml ea.

## Individual Reagents (Cyt.)

### Bluing Reagent

Is a pH-controlled solution for complete, effective bluing of hematoxylin in histological and cytological procedures.

<u>Catalog Number</u>	<u>Volume</u>
BRT500	500 ml
BRT999	1000 ml
BRT3800	1 Gal.

### EA-50 Stain Solution

EA-50 is a cytologic stain routinely used in diagnostic cytology to aid in the identification and classification of exfoliative cells. The stain is used for examining exfoliative cells of vaginal, cervical, sputum, as well as other body secretions. Commonly used in combination with hematoxylin.

Results:

Nuclei: Blue  
Cytoplasm: Various shades of Pink or Green.

<u>Catalog Number</u>	<u>Volume</u>
EAC500	500 ml
EAC999	1000 ml
EAC3800	1 Gal.

### EA-65 Stain Solution

EA-65 is a cytologic stain routinely used in diagnostic cytology to aid in the identification and classification of exfoliative cells. EA-65 is recommended for specimens with large amounts of mucus. The stain is used for examining exfoliative cells of vaginal, cervical, sputum, as well as other body secretions. Commonly used in combination with hematoxylin.

Results:

Nuclei: Blue  
Cytoplasm: Various shades of Pink or Green.

<u>Catalog Number</u>	<u>Volume</u>
EAD500	500 ml
EAD999	1000 ml
EAD3800	1 Gal.

### Eosin Y Solution (Alcoholic)

Eosin Y Solution is intended for use in the histological demonstration of cytoplasm and is commonly used as a counterstain for Hematoxylin. When used correctly, various shades of pink can be obtained to aid in visualization of tissue components. Erythrocytes, collagen, and the cytoplasm of muscle or epithelial cells will stain with different shades of pink.

Cytoplasm: Pink to Red  
Erythrocytes: Pink to Red  
Nuclei: Black/Blue (Hematoxylin)

<u>Catalog Number</u>	<u>Volume</u>
EYA500	500 ml
EYA999	1000 ml
EYA3800	1 Gal.

### Eosin Y Solution (Aqueous)

Eosin Y Solution (Aqueous) is intended for use in the histological demonstration of cytoplasm and is commonly used as a counterstain for Hematoxylin. When used correctly, various shades of pink can be obtained to aid in visualization of tissue components. Erythrocytes, collagen, and the cytoplasm of muscle or epithelial cells will stain with different shades of pink.

Cytoplasm: Pink to Red  
Erythrocytes: Pink to Red  
Nuclei: Black/Blue (Hematoxylin)

<u>Catalog Number</u>	<u>Volume</u>
EYQ500	500 ml
EYQ999	1000 ml
EYQ3800	1 Gal.

**Eosin Y Solution (Modified Alcoholic)**

Eosin Y Solution (Modified Alcoholic) is intended for use in histology and cytology applications. This newly formulated Eosin provides the benefits of a traditional alcoholic formula with significant improvements in usability. Advantages include lower evaporation rate, better color patterns, reduced tendency to spill over container, hands, and countertops, and improved surface tension to remain on tissue section.

Cytoplasm: Light Pink  
Collagen: Pink  
Muscle: Pink/Rose  
Erythrocytes: Pink/Red

<u>Catalog Number</u>	<u>Volume</u>
EYB500	500 ml
EYB999	1000 ml
EYB3800	1 Gal.

**Eosin-Phloxine Solution**

Eosin-Phloxine Solution is intended for use in the histological demonstration of cytoplasm. The addition of Phloxine to Eosin results in more vibrant staining than with Eosin alone. When used correctly, Eosin-Phloxine various shades of pink can be obtained to aid in visualization of tissue components.

Cytoplasm: Pink to Red  
Erythrocytes: Pink to Red  
Alcoholic Hyalin: Pink

<u>Catalog Number</u>	<u>Volume</u>
EPN500	500 ml
EPN999	1000 ml
EPN3800	1 Gal.

**Hematoxylin, Mayer's (Lillie's Modification)**

Produces a crisp dark blue nuclei. A traditional formulation that results in an excellent quality stain that is more intense than our Hematoxylin, For Automation (catalog# HAQ999). For optimal results, use in combination with Bluing Reagent (catalog# BRT999).

<u>Catalog Number</u>	<u>Volume</u>
HMM125	125 ml
HMM500	500 ml
HMM999	1000 ml
HMM3800	1 Gal.

**Hematoxylin, Weigert's Iron Kit**

Weigert's Iron Hematoxylin is intended to be used with various special stain kits. Product is supplied as a two component (equal volumes of parts A and B) system that is mixed prior to use and results in black/blue nuclei.

<u>Catalog Number</u>	<u>Volume</u>
HWI-1	250 ml
HWI-2	1000 ml
HWI-3	2000 ml

**OG-6 Solution**

OG-6 is a cytologic stain routinely used in diagnostic cytology to aid in the identification and classification of exfoliative cells. The stain is used for examining exfoliative cells of vaginal, cervical, sputum, as well as other body secretions. Commonly used in combination with hematoxylin.

<u>Catalog Number</u>	<u>Volume</u>
OGA500	500 ml
OGA999	1000 ml
OGA3800	1 Gal.

**Water, Deionized/Distilled**

Water for use in laboratory procedures has been deionized, distilled and filtered at 0.2 micrometer for critical assays.

<u>Catalog Number</u>	<u>Volume</u>
DDH999	1000 ml
DDH3800	1 Gal.
DDH-20000	20 L

**Transport Media (Cyt.)****CytoPort, Cytology Transport Media**

This reagent is intended for use as a transport media for mammalian cells for subsequent testing. Samples may be transported at room temperature.

<u>Catalog Number</u>	<u>Volume</u>
CTM500	500 ml
CTM999	1000 ml

**Ancillary (Cyt.)****KP Marker Plus**

Klinipath KP Marker Plus is a solvent resistant marking pen for permanent writing on glass slides, cassettes and other items in the laboratory. One box contains 12 pens.

<u>Catalog Number</u>	<u>Volume</u>
KPM-1	12 Pen(s)

**PAP Pen**

This marking pen has been designed to provide a thin film-like barrier when a circle is drawn around the specimen on a slide. This barrier creates the proper surface tension to hold an antibody solution within the target area on the slide. PAP Pen contains a special formulation which is insoluble in alcohol and acetone. It can be removed, if desired, by xylene after the staining procedure is completed.

<u>Catalog Number</u>	<u>Volume</u>
LP0001	1 ea.

---

**PAP Pen-Mini**

This marking pen has been designed to provide a thin film-like barrier when a circle is drawn around the specimen on a slide. This barrier creates the proper surface tension to hold an antibody solution within the target area on the slide. PAP Pen contains a special formulation which is insoluble in alcohol and acetone. It can be removed, if desired, by xylene after the staining procedure is completed.

<u>Catalog Number</u>	<u>Volume</u>
LP0002	1 ea.

---

**Wash Solution Concentrate (50X)**

Wash Solution Concentrate (50x) is designed to provide optimal rinsing of routine or special stains between steps. In addition, this reagent can be used as a dilution buffer for most aqueous stains. This product is compatible with hand staining procedures and most automated systems.

<u>Catalog Number</u>	<u>Volume</u>
WSC999	1000 ml



# Hematology

## Kits (Hem.)

### Giemsa Stain Kit (May-Grunwald)

The Giemsa Stain Kit (May-Grunwald) is intended for use in the visualization of cells present in hematopoietic tissues and certain microorganisms. This kit may be used on formalin-fixed, paraffin-embedded sections.

Nuclei:	Blue/Violet
Cytoplasm:	Light Blue
Collagen:	Pale Pink
Muscle Fibers:	Pale Pink
Erythrocytes:	Gray, Yellow or Pink
Rickettsia:	Reddish-Purple
Helicobacter Pylori:	Blue
Mast Cells:	Dark Blue with Red Granules

<u>Catalog Number</u>	<u>Volume</u>
GMG-2	100 Slides
GMG-1	1 kit(s)

### Quick-Dip Differential Stain Kit

The Quick-Dip Differential Stain Kit provides three reagents for rapid staining of blood smears. Methanol is used to quickly fix smears, followed by differential staining with buffered xanthene and thiazine dyes.

#### Expected Results:

Neutrophils: Violet nuclei with dark violet granules and pink cytoplasmic granules.  
 Eosinophils: Violet nuclei with dark violet granules and bright red cytoplasmic granules.  
 Monocytes: Violet nuclei with light blue cytoplasm.  
 Lymphocytes: Violet nuclei with dark violet granules and light blue cytoplasm.  
 Basophils: Violet nuclei with light blue cytoplasm.  
 Erythrocytes: Pink to yellowish-red.

<u>Catalog Number</u>	<u>Volume</u>
QDK-1	500 ml ea.
QDK-GL	1 Gal.

### Wright-Giemsa Stain Kit

Wright-Giemsa Stain Kit is intended to be used for differential staining of blood smears, bone marrow and blood parasites.

Erythrocytes: Pink-Tan  
 Leukocytes: Blue-Purple  
 Neutrophils: Light Purple granules in cytoplasm.  
 Eosinophils: Bright Red-Red-Orange granules in cytoplasm.  
 Basophils: Deep Purple granules in cytoplasm.  
 Platelets: Violet-Purple granules in light blue cytoplasm.

<u>Catalog Number</u>	<u>Volume</u>
WGK-2	1 kit(s)
WGK-1	1 kit(s)

## Individual Reagents (Hem.)

### Brilliant Cresyl Blue (0.3%, Alcoholic)

Brilliant Cresyl Blue (0.3%, alcoholic) is a supravital hematology stain for counting reticulocytes in peripheral blood smears. The number of reticulocytes in the blood is a simple measure of erythropoietic performance. Reticulocytes are immature erythrocytes that contain nuclear remnants of basophilic ribonucleoproteins which decreases as the reticulocyte matures. When stained, reticulocytes appear to contain dark blue granules or filaments.

Reticulocytes: Blue/Green with Dark Blue Granules.  
 Erythrocytes: Blue/Green  
 Leukocytes: Light Blue

<u>Catalog Number</u>	<u>Volume</u>
BCA500	500 ml
BCA999	1000 ml
BCA3800	1 Gal.

### Brilliant Cresyl Blue (1.5% in 0.85% Saline)

Brilliant Cresyl Blue (1.5% in 0.85% Saline) is a supravital hematology stain for counting reticulocytes in peripheral blood smears. The number of reticulocytes in the blood is a simple measure of erythropoietic performance. Reticulocytes are immature erythrocytes that contain nuclear remnants of basophilic ribonucleoproteins which decreases as the reticulocyte matures. When stained, reticulocytes appear to contain dark blue granules or filaments.

Reticulocytes: Blue/Green with Dark Blue Granules.  
 Erythrocytes: Blue/Green  
 Leukocytes: Light Blue

<u>Catalog Number</u>	<u>Volume</u>
BCS500	500 ml
BCS999	1000 ml
BCS3800	1 Gal.

### Giemsa Stock Solution

Component of the Giemsa Stain Kit (May Grunwald) for blood smears.

<u>Catalog Number</u>	<u>Volume</u>
GG5125	125 ml
GG5500	500 ml
GG5999	1000 ml

**Jenner Stock Solution**

For Research Use Only.

Jenner Stock Solution is intended to be used for differential staining of blood smears, bone marrow and blood parasites. This reagent is used in combination with Phosphate Buffer Solution pH 6.8 (cat# PBM) to make a working solution.

**Blood Smear Expected Results**

Neutrophils: Violet nuclei with dark violet granules and pink cytoplasmic granules

Eosinophils: Violet nuclei with dark violet granules and bright red cytoplasmic granules.

Monocytes: Violet nuclei with light blue cytoplasm.

Lymphocytes: Violet nuclei with dark violet granules and light blue cytoplasm.

Basophils: Violet nuclei with light blue cytoplasm.

Erythrocytes: Pink to yellowish-red.

<u>Catalog Number</u>	<u>Volume</u>
JSS500	500 ml
JSS999	1000 ml

**May-Grunwald Stock Solution**

Component of the Giemsa Stain Kit (May-Grunwald) for blood smears.

<u>Catalog Number</u>	<u>Volume</u>
MAY125	125 ml
MAY500	500 ml
MAY999	1000 ml

**Methanol**

For various laboratory procedures.

<u>Catalog Number</u>	<u>Volume</u>
MTH500	500 ml
MTH999	1000 ml
MTH3800	1 Gal.

**Phosphate Buffer Solution, pH 6.8**

Ready-to-Use solution used in the Giemsa Stain Kit.

<u>Catalog Number</u>	<u>Volume</u>
PBM500	500 ml
PBM999	1000 ml

**Water, Deionized/Distilled**

Water for use in laboratory procedures has been deionized, distilled and filtered at 0.2 micrometer for critical assays.

<u>Catalog Number</u>	<u>Volume</u>
DDH999	1000 ml
DDH3800	1 Gal.
DDH-20000	20 L

**Wright-Giemsa Solution**

The Wright-Giemsa Solution is intended for differential staining of blood smears and blood parasites. Use in conjunction with Phosphate Buffer Solution pH 6.8 (cat.# PBM)

<u>Catalog Number</u>	<u>Volume</u>
WGS500	500 ml
WGS999	1000 ml
WGS3800	1 Gal.

**Ancillary (Hem.)****Wash Solution Concentrate (50X)**

Wash Solution Concentrate (50x) is designed to provide optimal rinsing of routine or special stains between steps. In addition, this reagent can be used as a dilution buffer for most aqueous stains. This product is compatible with hand staining procedures and most automated systems.

<u>Catalog Number</u>	<u>Volume</u>
WSC999	1000 ml

# Microbiology

## Kits (Mic.)

### Acid Fast Bacteria (AFB) Stain Kit

The Acid Fast Bacteria (AFB) Stain Kit is intended for use in the histological visualization of Acid Fast Bacteria and Tubercle Bacilli. This kit is a rapid 15-minute procedure. The lipid capsule of the acid-fast organism takes up carbol fuchsin and resists decolorization.

Acid Fast Organisms: Bright Red  
Background: Light Green

<u>Catalog Number</u>	<u>Volume</u>
FAB-2	30 ml ea.
FAB-1	125 ml ea.
FAB-500	500 ml ea.

### Fite's Stain Kit

The Fite's Stain Kit (For Leprosy) is intended for use in the histological visualization of mycobacterium leprae (leprosy) and Nocardia.

Leptra bacillus: Red  
Nocardia: Red  
Background: Blue

<u>Catalog Number</u>	<u>Volume</u>
FLS-1	125 ml ea.
FLS-500	500 ml ea.

### Giemsa Stain Kit (May-Grunwald)

The Giemsa Stain Kit (May-Grunwald) is intended for use in the visualization of cells present in hematopoietic tissues and certain microorganisms. This kit may be used on formalin-fixed, paraffin-embedded sections.

Nuclei: Blue/Violet  
Cytoplasm: Light Blue  
Collagen: Pale Pink  
Muscle Fibers: Pale Pink  
Erythrocytes: Gray, Yellow or Pink  
Rickettsia: Reddish-Purple  
Helicobacter Pylori: Blue  
Mast Cells: Dark Blue with Red Granules

<u>Catalog Number</u>	<u>Volume</u>
GMG-2	100 Slides
GMG-1	1 kit(s)

### GMS Stain Kit

The Modified Gomori Methenamine-Silver Nitrate Stain (GMS Stain Kit) is intended for use in the histologic visualization of fungi, basement membrane and some opportunistic organisms such as Pneumocystis carinii.

<u>Catalog Number</u>	<u>Volume</u>
KAA-1	125 ml ea.
KAA-500	500 ml ea.
KAA-1000	1000 ml ea.

### Gram Stain Kit

The Gram Stain Kit is intended for the demonstration and differentiation of Gram-positive and Gram-negative bacteria.

Gram Positive Bacteria: Blue  
Gram Negative Bacteria: Red  
Other Tissue: Yellow  
Nuclei: Red

<u>Catalog Number</u>	<u>Volume</u>
GSK-2	30 ml ea.
GSK-1	125 ml ea.
GSK-500	500 ml ea.

### Gram Stain Kit (Modified Brown & Brenn)

The Gram Stain Kit (Modified Brown & Brenn) is intended for the demonstration and differentiation of Gram-positive and Gram-negative bacteria.

Gram Positive Bacteria: Blue  
Gram Negative Bacteria: Red  
Other Tissue: Slightly Yellow - Pink  
Nuclei: Red

<u>Catalog Number</u>	<u>Volume</u>
BBS-2	30 ml ea.
BBS-1	125 ml ea.
BBS-500	500 ml ea.

### H. Pylori Rapid Stain Kit

The H. Pylori Rapid Stain Kit is designed for demonstrating Helicobacter Pylori infected tissue. Kit may be used on formalin fixed, paraffin-embedded tissue. The Warthin-Starry Stain Kit (WSS-1) is a more sensitive system for H. Pylori and is suggested for cases where total H. Pylori count is low.

Results:  
Helicobacter Pylori: Blue  
Mucin: Yellow  
Background: Light Blue

<u>Catalog Number</u>	<u>Volume</u>
AYH-2	100 Slides
AYH-1	1 kit(s)

### Mucicarmine Stain Kit (Modified Southgate's)

Mucicarmine Stain Kit (Modified Southgate's) is intended for use in the histological visualization of acid mucopolysaccharides in tissue sections. This product is useful in distinguishing mucin negative undifferentiated squamous cell lesions from mucin positive adenocarcinomas. In addition, this product will stain the mucopolysaccharide capsule of Cryptococcus neoformans.

Mucin: Pink/Red  
Capsule of Cryptococcus: Red  
Nuclei: Black/Blue  
Other tissue components: Yellow

<u>Catalog Number</u>	<u>Volume</u>
SMS-2	100 Slides
SMS-1	1 kit(s)

**Orcein Stain Kit (For Hepatitis B and Elastic Fibers)**

The Orcein Stain may be used in histology procedures for the visualization of Hepatitis B surface Antigen (HBsAg), elastic fibers, and copper associated proteins. HBsAg appears as irregular shaped aggregates in the cytoplasmic region of the cells. This reagent may be used on formalin-fixed, paraffin-embedded sections.

HBsAg:	Dark Red/Brown
Elastic Fibers:	Dark Red/Brown
Copper Assoc. Proteins:	Dark Red/Brown
Background:	Light Reddish/Purple

<u>Catalog Number</u>	<u>Volume</u>
HBK-2	1 kit(s)
HBK-1	1 kit(s)

**Periodic Acid Schiff (PAS) for Fungus Stain Kit**

The Periodic Acid Schiff (PAS) for Fungus Stain Kit is intended for use in histological demonstration of fungal organisms in tissue sections. The PAS reaction is also useful in the demonstration of lymphocytes and mucopolysaccharides. The staining patterns of the lymphocytes are helpful in making therapeutic decisions in established cases of lymphocytic leukemia.

Fungal Organisms:	Magenta
PAS Positive Material:	Magenta
Nuclei:	Green/Blue

<u>Catalog Number</u>	<u>Volume</u>
PASF-2	1 kit(s)
PASF-1	1 kit(s)

**Pneumocystis Stain Kit**

The Pneumocystis Stain Kit is intended for use in the histological visualization of Pneumocystis carinii in cytology smears and paraffin tissue sections. Pneumocystis carinii is an opportunistic pathogen that causes severe pulmonary disease in humans, dogs, rats, mice and other vertebrate species with acquired, induced, or inherited immune deficiency syndromes. In addition, this procedure will demonstrate Actinomyces and related species, Nocardia asteroides, and certain encapsulated bacteria.

Pneumocystis carinii:	Violet / Purple
Connective Tissue:	Blue / Green
Erythrocytes:	Yellow
Mucin:	Rose / Purple
Cartilage:	Rose / Purple

<u>Catalog Number</u>	<u>Volume</u>
PCS-2	100 Slides
PCS-1	1 kit(s)

**Quick-Dip Differential Stain Kit**

The Quick-Dip Differential Stain Kit provides three reagents for rapid staining of blood smears. Methanol is used to quickly fix smears, followed by differential staining with buffered xanthene and thiazine dyes.

**Expected Results:**

Neutrophils: Violet nuclei with dark violet granules and pink cytoplasmic granules.

Eosinophils: Violet nuclei with dark violet granules and bright red cytoplasmic granules.

Monocytes: Violet nuclei with light blue cytoplasm.

Lymphocytes: Violet nuclei with dark violet granules and light blue cytoplasm.

Basophils: Violet nuclei with light blue cytoplasm.

Erythrocytes: Pink to yellowish-red.

<u>Catalog Number</u>	<u>Volume</u>
QDK-1	500 ml ea.
QDK-GL	1 Gal.

**Steiner Stain Kit (For Spirochetes)**

The Steiner Stain Kit (For Spirochetes) is designed for demonstrating Fungi, Helicobacter Pylori, Legionella pneumophila, and Spirochete infected tissue. Kit may be used on formalin fixed, paraffin-embedded tissue sections.

Spirochetes:	Black to Brown
Helicobacter Pylori:	Black to Brown
Fungi:	Black to Brown
Legionella pneumophila:	Black to Brown
Background:	Yellow to Tan

<u>Catalog Number</u>	<u>Volume</u>
SSK-1	1 kit(s)

**Twort's Counterstain Kit**

The Twort's Counterstain Kit is intended for use in histology procedures such as the Gram Stain to provide contrast for easier visualization of various cell components in tissue sections.

Nuclei:	Red
Cytoplasm:	Light Green

<u>Catalog Number</u>	<u>Volume</u>
TCK-1	1 kit(s)

**Warthin-Starry Stain Kit**

The Warthin-Starry Stain Kit is intended for use in the visualization of Spirochetes, Helicobacter pylori, Legionella pneumophila, and Cat Scratch Fever bacteria. This kit may be used on formalin-fixed, paraffin-embedded sections.

Helicobacter pylori:	Black
Legionella pneumophila:	Black
Spirochetes:	Black
Cat Scratch Fever Bacteria:	Black
Klebsiella:	Brown/Black
Nuclei:	Brown
Background:	Yellow

<u>Catalog Number</u>	<u>Volume</u>
WSS-1	1 kit(s)

### Wright-Giemsa Stain Kit

Wright-Giemsa Stain Kit is intended to be used for differential staining of blood smears, bone marrow and blood parasites.

Erythrocytes: Pink-Tan  
 Leukocytes: Blue-Purple  
 Neutrophils: Light Purple granules in cytoplasm.  
 Eosinophils: Bright Red-Red-Orange granules in cytoplasm.  
 Basophils: Deep Purple granules in cytoplasm.  
 Platelets: Violet-Purple granules in light blue cytoplasm.

<u>Catalog Number</u>	<u>Volume</u>
WGK-2	1 kit(s)
WGK-1	1 kit(s)

## Individual Reagents (Mic.)

### Alcian Yellow Solution

Used in Alcian Yellow for H. Pylori.

<u>Catalog Number</u>	<u>Volume</u>
ANY125	125 ml
ANY500	500 ml
ANY999	1000 ml
ANY3800	1 Gal.

### Carbol Fuchsin (Kinyoun's)

The Carbol Fuchsin Solution (Kinyoun's) is intended for use in the histological visualization of Acid Fast Bacteria and Tubercle Bacilli. This reagent is a rapid 2-5 minute procedure. The lipoid capsule of the acid-fast organism takes up carbol fuchsin and resists decolorization.

Acid Fast Organisms: Bright Red

<u>Catalog Number</u>	<u>Volume</u>
CFK500	500 ml
CFK999	1000 ml

### Carbol Fuchsin Counterstain

Carbol Fuchsin Counterstain is a component of the Gram Stain Kit, catalog # GSK-1.

<u>Catalog Number</u>	<u>Volume</u>
CFX125	125 ml
CFX500	500 ml
CFX999	1000 ml

### Carbol Fuchsin Solution

A modified Ziehl-Neelson formulation used for staining acid fast bacteria. This stain is a rapid 15-minute procedure. The lipoid capsule of the acid-fast organism takes up carbol fuchsin and resists decolorization.

Acid Fast Organisms: Bright Red

<u>Catalog Number</u>	<u>Volume</u>
CFZ125	125 ml
CFZ500	500 ml
CFZ999	1000 ml

### Gentian Violet Solution

Gentian Violet Solution is the component of the Gram Stain Kit (catalog# GSK-1) that results in blue staining of the Gram Positive Bacteria. Gentian Violet is intended for the demonstration and differentiation of Gram-positive and Gram-negative bacteria.

<u>Catalog Number</u>	<u>Volume</u>
GVS125	125 ml
GVS500	500 ml
GVS999	1000 ml

### Gram's Decolorizer Solution

Component used in the Gram Stain Kit.

<u>Catalog Number</u>	<u>Volume</u>
GDS125	125 ml
GDS500	500 ml
GDS999	1000 ml

### H. Pylori Rapid Stain (1-Step)

The H. Pylori Rapid Stain (1-Step) is a single component reagent that has been developed to identify helicobacter pylori in a procedure that requires less than 10 minutes to complete. Procedure is effective for fresh, frozen, and paraffin embedded sections. Helicobacter Pylori has been shown to be the causative organism in some gastric ulcers.

H. Pylori: Dark Blue/Purple  
 Cytoplasm: Pink to Red  
 Background: Violet  
 Nuclei: Blue

<u>Catalog Number</u>	<u>Volume</u>
HPS030	30 ml
HPS500	500 ml
HPS999	1000 ml

### Light Green Solution

Light Green Solution is intended for use in histological applications as a general counterstain. When used correctly, various shades of green can be obtained to aid in visualization of tissue components.

<u>Catalog Number</u>	<u>Volume</u>
LGA030	30 ml
LGA125	125 ml
LGA500	500 ml
LGA999	1000 ml
LGA3800	1 Gal.

### Lugol's Iodine Solution

<u>Catalog Number</u>	<u>Volume</u>
LIS125	125 ml
LIS500	500 ml
LIS999	1000 ml

### Methylene Blue Solution

Methylene Blue Solution has been optimized in our research laboratories to give outstanding results when used in various procedures such as the Ziehl-Neelsen, Fite's, and Gram stain. The stain is also suggested for use in staining a variety of bacteria (Corynebacterium diphtheria, Haemophilus influenzae, Neisseria, etc.) and leukocytes. This reagent produces dark blue nuclei with very light blue cytoplasm.

Nuclei:	Dark Blue
Cytoplasm:	Light Blue
Corynebacterium Diphtheria:	Blue Granules
Escherichia Coli:	Blue Rods
Streptococcus Pyogenes:	Blue Cocci

<u>Catalog Number</u>	<u>Volume</u>
MBS125	125 ml
MBS500	500 ml
MBS999	1000 ml

### Mucicarmine Solution (Southgate's)

Mucicarmine Solution (Southgate's) is a component of the Mucicarmine Stain Kit (Catalog# SMS-1) and is intended for use in the histological visualization of acid mucopolysaccharides in tissue sections. Mucicarmine Solution is the component responsible for staining Mucin red. This product is useful in distinguishing mucin negative undifferentiated squamous cell lesions from mucin positive adenocarcinomas. In addition, this product will stain the mucopolysaccharide capsule of

<u>Catalog Number</u>	<u>Volume</u>
SMG125	125 ml
SMG500	500 ml
SMG999	1000 ml

### Picric Acid - Acetone Solution (0.1%)

Component used in the Gram Stain Kit (Modified Brown & Brenn).

<u>Catalog Number</u>	<u>Volume</u>
PAB125	125 ml
PAB500	500 ml
PAB999	1000 ml

### Safranin O Solution

Safranin O Solution is commonly used for counterstaining nuclei red (Hucker's Counterstain).

<u>Catalog Number</u>	<u>Volume</u>
SOH250	250 ml
SOH500	500 ml
SOH999	1000 ml

### SpiroPrep

Component of the Warthin-Starry Stain Kit.

<u>Catalog Number</u>	<u>Volume</u>
SSE125	125 ml
SSE500	500 ml
SSE999	1000 ml

### Water, Deionized/Distilled

Water for use in laboratory procedures has been deionized, distilled and filtered at 0.2 micrometer for critical assays.

<u>Catalog Number</u>	<u>Volume</u>
DDH999	1000 ml
DDH3800	1 Gal.
DDH-20000	20 L

## Ancillary (Mic.)

### KP Marker Plus

Klinipath KP Marker Plus is a solvent resistant marking pen for permanent writing on glass slides, cassettes and other items in the laboratory. One box contains 12 pens.

<u>Catalog Number</u>	<u>Volume</u>
KPM-1	12 Pen(s)

### PAP Pen

This marking pen has been designed to provide a thin film-like barrier when a circle is drawn around the specimen on a slide. This barrier creates the proper surface tension to hold an antibody solution within the target area on the slide. PAP Pen contains a special formulation which is insoluble in alcohol and acetone. It can be removed, if desired, by xylene after the staining procedure is completed.

<u>Catalog Number</u>	<u>Volume</u>
LP0001	1 ea.

### PAP Pen-Mini

This marking pen has been designed to provide a thin film-like barrier when a circle is drawn around the specimen on a slide. This barrier creates the proper surface tension to hold an antibody solution within the target area on the slide. PAP Pen contains a special formulation which is insoluble in alcohol and acetone. It can be removed, if desired, by xylene after the staining procedure is completed.

<u>Catalog Number</u>	<u>Volume</u>
LP0002	1 ea.

### Wash Solution Concentrate (50X)

Wash Solution Concentrate (50X) is designed to provide optimal rinsing of routine or special stains between steps. In addition, this reagent can be used as a dilution buffer for most aqueous stains. This product is compatible with hand staining procedures and most automated systems.

<u>Catalog Number</u>	<u>Volume</u>
WSC999	1000 ml

# Buffers

## Acetate Buffer Solution, pH 8.0

Used in the Microwave Copper Stain.

<u>Catalog Number</u>	<u>Volume</u>
SAB500	500 ml
SAB999	1000 ml

## Citrate Buffer (10x) pH 6.0

Citrate Buffer (10X) HIER Solution (pH 6.0) is a unique citrate buffer designed to significantly enhance immunohistochemical staining with many commercially available primary antibodies. Diluted 1:10 with deionized or distilled water, this product is easy to use and highly effective.

<u>Catalog Number</u>	<u>Volume</u>
CBB125	125 ml
CBB500	500 ml
CBB999	1000 ml

## Citrate Plus (10x) HIER Solution

This is a unique citrate buffer designed to significantly enhance immunohistochemical staining with many commercially available primary antibodies. Diluted 1:10 with deionized or distilled water, this product is easy to use and highly effective. Citrate Plus (10X) can be used in a vegetable steamer, autoclave, or pressure cooker. However, for optimal results we recommend the autoclave or pressure cooker.

pH 6.5 ±0.5

<u>Catalog Number</u>	<u>Volume</u>
CPL500	500 ml
CPL999	1000 ml

## EDTA - Saline Buffer (10X Concentrate); pH 8.0

EDTA Buffer (10X) HIER Solution (pH 8.0) is a unique buffer designed to significantly enhance immunohistochemical staining with many commercially available primary antibodies. Diluted 1:10 with deionized or distilled water, this product is easy to use and highly effective.

<u>Catalog Number</u>	<u>Volume</u>
ETA500	500 ml
ETA999	1000 ml

## Phosphate Buffer Solution, pH 6.8

Ready-to-Use solution used in the Giemsa Stain Kit.

<u>Catalog Number</u>	<u>Volume</u>
PBM500	500 ml
PBM999	1000 ml

## Phosphate Buffered Saline (10x) pH 7.4

ScyTek Phosphate Buffered Saline (10x) pH 7.4 is an optimal formulation of pH stabilizers and salts designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
PBD500	500 ml
PBD999	1000 ml
PBD010	10 L
PBD-20000	20 L

## Phosphate Buffered Saline (25x) pH 7.6

ScyTek Phosphate Buffered Saline (25x) pH of 7.6 is an optimal formulation of pH stabilizers and salts designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
PBS125	125 ml
PBS500	500 ml
PBS999	1000 ml
PBS010	10 L
PBS-20000	20 L



### Phosphate Buffered Saline plus Tween 20 (10x) pH 7.4

ScyTek Phosphate Buffered Saline + Tween 20 (10x) pH of 7.4 is an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
PBE500	500 ml
PBE999	1000 ml
PBE010	10 L
PBE-20000	20 L

### Phosphate Buffered Saline plus Tween 20 (20x) pH 7.6

ScyTek Wash buffer formulations are an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
PBT500	500 ml
PBT999	1000 ml
PBT010	10 L
PBT-20000	20 L

### SSPE Buffer (20x) pH 7.4

Diluted solution contains Sodium Chloride: 0.15 M; Sodium Phosphate: 0.010 M; EDTA: 0.001 M.

<u>Catalog Number</u>	<u>Volume</u>
SPE-20000	20 L

### Tris Buffered Saline (10x) pH 7.5

ScyTek Tris Buffered Saline (10x) pH of 7.5 is an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
TBD500	500 ml
TBD999	1000 ml
TBD010	10 L
TBD-20000	20 L

### Tris Buffered Saline (25x) pH 7.4

ScyTek Tris Buffered Saline (25x) pH of 7.4 is an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
TBS500	500 ml
TBS999	1000 ml
TBS010	10 L
TBS-20000	20 L

---

**Tris Buffered Saline plus Tween 20 (10x) pH 7.5**

ScyTek Tris Buffered Saline + Tween 20 (10x) pH of 7.5 is an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the microtiter plate wells without disrupting the ELISA binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application. This product can be customized to meet the specific needs of your assay. Inquire about custom vialing, labeling, kit assembly and drop shipping.

<u>Catalog Number</u>	<u>Volume</u>
TBE500	500 ml
TBE999	1000 ml
TBE010	10 L
TBE-20000	20 L

---

**Tris Buffered Saline plus Tween 20 (20x Concentrate) pH 7.4**

ScyTek Tris Buffered Saline + Tween 20 (20x Concentrate) pH of 7.4 is an optimal formulation of pH stabilizers, salts and detergents designed to effectively remove excess material from the tissue sample or microtiter plate wells without disrupting the antibody binding reaction. By maintaining the proper buffering environment, unbound components can be washed away without suppressing antigen-antibody binding interactions, thereby reducing nonspecific background and increasing the specific signal. Our Wash buffers do not contain hazardous preservatives such as Azide or Mercury that may interfere with antibody-antigen binding interactions. For your convenience wash buffer is offered in a wide variety of formulations to meet the needs of your specific ELISA application.

<u>Catalog Number</u>	<u>Volume</u>
TBT500	500 ml
TBT999	1000 ml
TBT010	10 L
TBT-20000	20 L



---

P.O. Box 3286 - Logan, Utah 84323, U.S.A.  
Tel. (800) 729-8350  
Fax (435) 755-0015  
[scytek.com](http://scytek.com)