

P.O. Box 3286 - Logan, Utah 84323, U.S.A. - Tel. (800) 729-8350 - Fax (435) 755-0015 - [www.scytek.com](http://www.scytek.com)

## Immunohistochemistry Buyer's Guide (Highest Sensitivity)

### UltraTek™ Detection System

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. Our Anti-Polyvalent systems may be used with primary antibodies derived from Mouse, Rat, Rabbit and Guinea Pig.

#### 70 Slide Kits

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

<u>Catalog#</u>	<u>Volume</u>
AMF080	70 Slides
Kit Contents:	
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

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

<u>Catalog#</u>	<u>Volume</u>
AMH080	70 Slides
Kit Contents:	
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

#### Lab Packs (Most economical way to buy)

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 and we encourage you to evaluate the addition of this in your current system.

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

<u>Catalog#</u>	<u>Volume</u>
UHP125	125 ml of each
UHP500	500 ml of each
UHP999	1000 ml of each

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

<u>Catalog#</u>	<u>Volume</u>
UAP125	125 ml of each
UAP500	500 ml of each
UAP999	1000 ml of each

## Chromogens For Lab Packs

### For Peroxidase

#### 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. 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. Once the two components are combined, the reagent can be used for up to six hours, making it ideal for automated stainers.

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

### For Alkaline Phosphatase

#### Permanent Red (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#</u>	<u>Volume</u>
PRD-61	61 ml

#### Fast-Red

A widely used chromogen for immunohistochemical staining and immunoblotting. When in the presence of the Alkaline-Phosphatase enzyme, Fast-Red produces a bright red precipitate. Use these tablets (1 tablet per 5 ml) in conjunction with Naphthol Phosphate Buffer (High Contrast). This product must not be used with solvent based mounting media or clearing agents.

<u>Catalog#</u>	<u>Volume</u>
FRT025	25 Tablets
NPC125	125 ml Buffer
FRT100	100 Tablets
NPC500	500 ml Buffer

**Instructions For Use are Available On-line!**  
**ScyTek.com**

## Digestion Enzymes and Enhancers

### Citrate Plus (10X) HEIR 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.

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

### Pepsin, Stabilized Solution

The tissue section is incubated 10 minutes at 37° centigrade in this single component, ready-to-use solution. This product is stable for 12 months at 4° 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#</u>	<u>Volume</u>
PSS060	60 ml
PSS125	125 ml
PSS500	500 ml

## Antibody Diluents

### 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° C for up to 18 months. Diluent is subjected to 0.2 micron filtration.

<u>Catalog#</u>	<u>Volume</u>
ABB500	500 ml
ABB999	1000 ml
ABB-20000	20 liters

### 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° C for up to 18 months. Diluent is subjected to 0.2 micron filtration.

<u>Catalog#</u>	<u>Volume</u>
ADT500	500 ml
ADT999	1000 ml
ADT-20000	20 liters

**All Reagents are Produced In-House!**  
**ScyTek.com**

## Wash Buffers

ScyTek Wash buffer formulations are an optimal formulation of pH stabilizers, salts and detergents. 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.

### Phosphate Buffered Saline + Tween 20 (20X Concentrate), pH 7.6

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

### Tris Buffered Saline + Tween 20 (20X Concentrate), pH 7.4

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

## Counterstain Solutions

### 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#</u>	<u>Volume</u>
HMM500	500 ml
HMM999	1000 ml
HMM3800	1 Gallon
HMM010	10 liters
HMM-20000	20 liters

### Nuclear Fast Red Solution (Enhanced Stability)

Nuclear Fast Red is a stain with histological applications. The newly formulated reagent has improved stability over current formulations allowing reagent to be stored at room temperature or 2-8° 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 new formulation completely eliminates the problems associated with exposure to cold and aging. This product may to be stored at 2-25° Centigrade.

<u>Catalog#</u>	<u>Volume</u>
NFS500	500 ml
NFS999	1000 ml

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# Mounting Media

## 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 other formulations.

<u>Catalog#</u>	<u>Volume</u>
AML030	30 ml (dropper)
AML060	60 ml (dropper)
AML500	500 ml (bottle)

## 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#</u>	<u>Volume</u>
FMM030	30 ml (dropper)
FMM060	60 ml (dropper)
FMM500	500 ml (bottle)

# Marking Products

## 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#</u>	<u>Volume</u>
LP0001	1 Pen



## 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#</u>	<u>Volume</u>
KPM-1	1 Box (12)



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## Ancillary Products

### **BRIJ<sup>®</sup> 35 Solution (25-30% w/v)**

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#</u>	<u>Volume</u>
BRJ500	500 ml
BRJ999	1 Liter

### **Water, Deionized/Distilled**

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

<u>Catalog#</u>	<u>Volume</u>
DDH999	1 Liter
DDH3800	1 Gallon
DDH-20000	20 Liters