

**UltraVision Plus Large Volume Detection System  
Anti-Polyvalent, HRP (Ready-To-Use)**

**INTENDED USE**

For In Vitro Diagnostic Use

<b><u>AVAILABILITY:</u></b>	<u>Catalog #</u>	<u>Slide Volume</u>
	TP-060-HLX	300-600 slides
	TP-125-HLX	625-1250 slides

<b><u>SPECIFICITY:</u></b>	Anti-Mouse IgG (H+L), Anti-Rabbit IgG (H+L)
<b><u>ENZYME:</u></b>	Peroxidase
<b><u>CHROMOGEN/SUBSTRATE:</u></b>	None provided

**REAGENTS**

Qty.	Component	TP-060-HLX	TP-125-HLX
1	Ultra V Block	TA-060-UB	TA-125-UB
1	Biotinylated Goat Anti-Polyvalent Plus	TP-060-BNS	TP-125-BNS
1	Streptavidin Peroxidase Plus	TS-060-HRS	TS-125-HRS

(The three-digit number in the middle of each Catalog # designates the reagent volume in mL or number of tablets.)

**DESCRIPTION**

The reagents in this kit constitute a labeled streptavidin-biotin immunoenzymatic antigen detection system. This technique involves the sequential incubation of the specimen with an unconjugated primary antibody specific to the target antigen, a biotinylated secondary antibody that reacts with the primary antibody, enzyme-labeled streptavidin, and substrate-chromogen.

**PRINCIPLE OF THE PROCEDURE**

This UltraVision detection system detects a specific antibody bound to an antigen in tissue sections. The specific antibody is located by a biotin-conjugated secondary antibody. This step is followed by the addition of a streptavidin-enzyme conjugate that binds to the biotin present on the secondary antibody. The specific antibody, secondary antibody, and streptavidin-enzyme complex is then visualized with an appropriate substrate/chromogen.

**WARNINGS & PRECAUTIONS**

Refer to MSDS.

**STORAGE & SHELF LIFE**

Store at 2-8°C. Each component is stable for 18 months.

**MICROBIOLOGICAL STATE**

Product(s) not sterile.

**MATERIALS REQUIRED BUT NOT PROVIDED**

Primary antibody. Diluent.

**SPECIMEN & REAGENT PREPARATION**

Refer to Procedure.

## **PROCEDURE**

### **STAINING PROTOCOL (kit components in bold):**

1. Deparaffinize and rehydrate tissue section.
2. To reduce nonspecific background staining due to endogenous peroxidase, incubate slide in hydrogen peroxide for 10-15 minutes.
3. Wash 2 times in buffer.
4. If required, incubate tissue in digestive enzyme (or appropriate pretreatment).
5. Wash 4 times in buffer.
6. (Optional) Apply **Ultra V Block** and incubate for 5 minutes at room temperature to block nonspecific background staining.  
**NOTE:** Do not exceed 10 minutes or there may be a reduction in desired stain.
7. Rinse (Optional).
8. Apply primary antibody and incubate according to manufacturer's protocol.
9. Wash 4 times in buffer.
10. Apply **Biotinylated Goat Anti-Polyvalent** and incubate for 5 minutes at room temperature.
11. Wash 4 times in buffer.
12. Apply **Streptavidin Peroxidase** and incubate for 5 minutes at room temperature.
13. Rinse 4 times in buffer.
14. Incubate with peroxidase-compatible chromogen of choice according to manufacturer's recommendations.
15. Counterstain and coverslip.

The specificity and sensitivity of antigen detection is dependent on the specific primary antibody used.

## **REFERENCES**

N/A

## **TROUBLESHOOTING**

Please contact Thermo Fisher Scientific Technical Support by phone (1-510-991-2800 or 1-800-828-1628) or by email (lab.reagents@thermofisher.com).