

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

INTENDED USE

For In Vitro Diagnostic Use

AVAILABILITY: Catalog # Slide Volume
TP-060-HL 300-600 slides
TP-125-HL 625-1250 slides

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

REAGENTS

Qty.	Component	TP-060-HL	TP-125-HL
1	Ultra V Block	TA-060-UB	TA-125-UB
1	Biotinylated Goat Anti-Polyvalent	TP-060-BN	TP-125-BN
1	Streptavidin Peroxidase	TS-060-HR	TS-125-HR

(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 10 minutes at room temperature.
11. Wash 4 times in buffer.
12. Apply **Streptavidin Peroxidase** and incubate for 10 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).

