HRP POLYMER KIT

INTENDED USE:

For In Vitro Diagnostic Use

CATALOG NO	VOLUME
PL-060-HLJ	60 ml (600 slides)
PL-125-HLJ	125 ml (1250 slides)

SPECIFICITY : Anti-Mouse IgG , Anti-Rabbit IgG

ENZYME : Peroxidase

REAGENTS :

Quantity	Component	PL-060-HLJ	PL-125-HLJ
1	Protein Block	PL-060-PBQ	PL-125-PBQ
1	HRP Polymer	PL-060-PHJ	PL-125-PHJ

DESCRIPTION

PatoLab Polymer is a robust ONE-step polymer system that provides increased sensitivity, time savings and detection simplicity. The HRP Polymer is an innovative technology. Ultimately gives the user higher sensitivity and antibody efficiency. PatoLab HRP polymer allows the use of less antibody to obtain better signal-to-noise ratios. This system is also biotin-free, which eliminates background staining found with traditional biotin-based detection methods. For optimal interpretation of results, appropriate positive and negative controls must be included..

PRINCIPLE OF THE PROCEDURE

This HRP Polymer Detection system detects rabbit and mouse immunoglobulins bound to an antigen in tissue sections. The specific primary antibody is located by a universal secondary antibody polymer formulation. The amino acid polymer was conjugated to horseradish peroxidase and the Fab fragments of goat anti-rabbit and goat anti-mouse. The polymer complex was then visualized with any suitable substrate/chromogen.

WARNINGS & PRECAUTIONS

Refer to MSDS.

STORAGE & SHELF LIFE

Store at 2-8°C. Product is stable for 24 months from the date of manufacture.

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. Wash 2 times in buffer.
3. If required, incubate tissue in digestive enzyme (or appropriate pretreatment).
4. Wash 4 times in buffer.
5. To reduce nonspecific background staining due to endogenous peroxidase, incubate slide in Hydrogen Peroxide Block for 10-15 minutes.
6. Wash 4 times in buffer.
7. Optional: Apply **Protein 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. (*May be omitted if primary antibodies are diluted in buffers containing 5-10% normal goat serum.*)
8. Wash (*Optional*).
9. Apply primary antibody and incubate according to manufacturer's recommended protocol.
10. Wash 4 times in buffer.
11. Apply **PatoLab HRP Polymer** and incubate for 30-45 minutes at room temperature.
    (**NOTE:** HRP Polymer is light sensitive. Please avoid unnecessary light exposure and store in opaque vial).
12. Wash 4 times in buffer.
13. Incubate with peroxidase-compatible chromogen of choice according to manufacturer's recommendations. Modify incubation time to optimize staining in your laboratory.
14. Wash 4 times in DI water.
15. Counterstain and coverslip using an aqueous mounting media.

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

Troubleshooting

Please contact PatoLab Technical Support by e-mail (patolab@patolab.com.tr).