Advanced Biosystems LLC
Redwood, CA 94063
E-mail:info@advanced-biosystems.com
Website: www.advanced-biosystems.com

IMMUNOHISTOPROBE
Two Step Polymer
HRP Polymer Conjugated
Goat anti-Mouse IgG (H+L) specific
(min. cross to Hm, Rat)

Description:
Two-Step Polymer Immunohistoprobe Plus is an extremely sensitive immunohistochemistry detection system. It is based on signal amplification by using a two-step polymer detection method. The primary antibody specific to an antigen on the tissue section is detected by an amplifier for primary antibody then followed by polymer detector. The antigen sites are then intensely visualized with an appropriate substrate/chromogen. Immunohistoprobe Plus does not use avidin or biotin, which completely eliminated nonspecific staining from endogenous avidin-biotin activity. It is currently the most sensitive detection system for IHC application.

Cat No.: 2841-07

Lot No.

Volume: Refer to the bottle label

Reagent Provided:
Reagent 1: Amplifier for Mouse IgG
Reagent 2: HRP Polymer Detector

Format:
Reagent 1: Liquid with light yellow color
Reagent 2: Liquid with light red color

Concentration: Ready to use

Application: Immunohistochemistry for frozen and paraffin embedded tissues.

Intended Usage:
Immunohistoprobe kit is intended for use with primary antibodies from animals (mouse, rabbit, goat or rat) for localization and identification of specific antigens on a slide mounted tissue sections by light microscopy. Refer to section of "**Specificity and cross reactivity**".

Host species: Goat

Specificity: Mouse IgG (H+L)

Cross Reactivity: minimal cross reactivity with human and rat serum proteins.

Preservative: Proclin 300

Conjugated enzyme: Polymerized Horseradish Peroxidase

Storage: Store at 2-8^{0}C. Stable up to 24 months *(see expiration date on bottle*). Do not mix the reagents from different lot.

Expiration Date: Refer to the bottle label

Disclaimer: For In vitro Laboratory Use Only. Not for diagnostic or therapeutic use.

Suggested Protocol:
Users must be trained in immunohistochemical technique prior to undertaking the following protocol:

1. Cut and mount sections on slides coated with a suitable tissue adhesive.
2. De-paraffinize sections in xylene or xylene substitutes.
3. Re-hydrate through graded alcohols. Wash slides in distilled H_2O.
4. Perform antigen retrieval as required (see Recommendations for Use for primary antibody).Wash slides in distilled H_2O.
5. Quench endogenous peroxidase using 3% peroxide for 5-10 minutes. Wash in wash buffer for 3 x 3 minutes.
6. Incubate with optimally diluted primary antibody (see Recommendations for Use for primary antibody). Wash in wash buffer for 3 x 3 minutes.
7. Incubate with **Reagent 1** (***Amplifier for Mouse***, ready to use) for 10-15 minutes. Wash in wash buffer for 3 x 3 minutes.
8. Incubate with **Reagent 2** (***HRP Polymer Detector***, ready to use) for 10-15 minutes. Wash in wash buffer for 3 x 3 minutes.
9. Add chromogen working solution until color development finish. Rinse slides in water.
10. Counterstain with Hematoxylin. Rinse slides in water for 5 minutes. Clear and mount sections.

REFERENCES:

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2. Shi ZR, Itzkowitz SH, Kim YS: A comparison of three immunoperoxidase techniques for antigen detection in colorectal carcinoma Tissues J Histochem Cytochem 36:317-322, 1988.
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4. Shi SR, Key ME, Kalra KL: Antigen retrieval in formalin-fixed paraffin embedded tissues: An enhanced method for immunohisto-chemical staining based on microwave oven heating of tissue sections. J Histochem Cytochem 39:741-748, 1991.
5. Shan-Rong Shi, James Guo,Richard J.cote,Lillian Young, Debra Hawes, Yan Shi, Sandra Thu and Clive R.Taylor, Applied Immunohistochemistry & Molecular Morphology, vol 7,201-208,1999.