

Mouse Immunohistochemistry Kit (HRP Polymer)

Cat. No.: M777874 | Pack size: 1 kit | Storage: 2-8°C

Overview

Mouse Immunohistochemistry Kit (HRP Polymer) is a high-sensitivity reagent kit. Using polymer labeling technology, horseradish peroxidase (HRP) is conjugated to the secondary antibody to form large-molecular antibody-enzyme polymers, which replace the secondary and tertiary antibodies used in conventional methods. These polymers deliver excellent signal amplification and strong tissue and cell penetration, making them ideal for immunohistochemical applications. Compared with the traditional three-step method, this series of detection reagents features simpler operation, faster assay, higher sensitivity and lower background staining.

Packing List:

M777874	Component	1 Kit	Storage
M777874A	Blocking Solution (5% BSA)	6 mL	2-8°C
M777874B	Endogenous Peroxidase Blocker (3% H ₂ O ₂)	6 mL	2-8°C
M777874C	Anti-Mouse IgG (HRP-Polymer)	6 mL	2-8°C
M777874D	DAB Chromogenic Reagent A (20× Concentrate)	2 mL	2-8°C
M777874E	DAB Chromogenic Reagent B (H ₂ O ₂ , 20× Concentrate)	2 mL	2-8°C
M777874F	DAB Chromogenic Reagent C (TBS Buffer, 20× Concentrate)	2 mL	2-8°C

Reagents and Consumables to Be Prepared Separately:

1. Adhesive glass slides.
2. PBS solution (pH 7.2–7.6).
3. EDTA antigen retrieval solution or citrate buffer.

Instructions for Use:

A. Antigen Retrieval and Staining Protocol for Paraffin Sections

1. Prepare sections and perform routine deparaffinization to hydration.
2. Endogenous Peroxidase Blocker (3% H_2O_2), incubate at room temperature for 10 min to inactivate endogenous enzymes. Rinse with distilled water, 2 min $\times$ 3 times.
3. Perform heat-induced antigen retrieval or enzymatic digestion on sections if required, based on antigen-antibody properties.
4. Add Blocking Solution (5% BSA), incubate at room temperature for 10 min. Shake off excess liquid; do not wash.
5. Add appropriately diluted primary antibody (Mouse IgG), incubate at 20–37 °C for 1–2 h or overnight at 4 °C. Rinse with 0.01 M PBS, 2 min $\times$ 3 times. (The dilution, incubation time and temperature of the primary antibody directly affect staining intensity and background. In general, insufficient positive staining can be improved by increasing primary antibody concentration and extending incubation time; high background can be reduced by lowering primary antibody concentration and shortening incubation time.)
6. Add Anti-Mouse IgG (HRP-Polymer), incubate at 37 °C for 30 min. Rinse with PBS or TBS, 2 min $\times$ 3 times.
7. DAB color development: To 1 mL distilled water, add 1 drop each of DAB Chromogenic reagent A, DAB Chromogenic reagent B and DAB Chromogenic reagent C. Mix well and apply onto the section. Develop color at room temperature, monitor reaction time under microscope (typically 5–30 min). Wash with distilled water.
8. Light counterstain with hematoxylin, dehydrate, clear, mount slides and observe.

B. Staining Protocol for Blood Smears, Cell Preparations and Frozen Sections

1. Coat slides with adhesive agent (Poly-L-Lysine). Prepare smears from anticoagulated blood after density centrifugation; cultured cells can be smeared or grown on coverslips. Air-dry frozen sections under fan at room temperature.
2. Fix samples with 4% paraformaldehyde or acetone for 10–20 min.
3. Prepare blocking mixture: 1 part Endogenous Peroxidase Blocker (3% H_2O_2) mixed with 50 parts pure methanol. Immerse slides in the mixture at room temperature for 30 min to block endogenous peroxidase. Rinse with distilled water 1–2 times.

The remaining steps follow steps 3–8 of the paraffin section protocol.

If staining results of frozen sections are unsatisfactory, heat-induced antigen retrieval can be performed as described for paraffin sections, followed by steps 3–8 of the paraffin section protocol.

Disclaimer & Safety Instructions:

1. This product is for research use only. Do not use it for medicine, clinical diagnosis, therapy, food or cosmetic applications.

2. Do not store in residential areas. For your safety and health, wear a lab coat, disposable gloves and a mask during operation.

Specifications And Storage & Shipping

Item	Information
Specifications & Purity	BioReagent, Suitable for Immunohistochemistry(IHC), high purity
Storage	Store at 2-8°C
Shipped In	Wet ice
Stability And Storage	Store at 2-8°C (12 months)

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Whether you have a technical question, need help with a quotation, or want to inquire about an order, our regional teams are ready to assist. Please contact the office for your region; for general inquiries, the North American office is the corporate primary.

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Limitations & Disclaimer

- For Research Use Only (RUO). Not for use in human or animal diagnostics, therapeutics, or in vivo applications. Not for food, cosmetic, or household use.
- This product is not a CE-marked in vitro diagnostic device under IVDR (EU) 2017/746 and is not an FDA-cleared device under 21 CFR. Use is restricted to verified businesses, institutions, and qualified professionals for research and development purposes.
- Where any kit component is classified as hazardous under CLP (EC) 1272/2008 or OSHA HCS (29 CFR 1910.1200), the product Safety Data Sheet (SDS) takes precedence over this document for handling, storage, and disposal information.
- Performance depends on sample type, sample condition, handling, and operator technique. Users are responsible for validating the kit for their specific application.

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