IMMUNOLOGICAL SCIENCES Product Data Sheet

IHC10017 E-Vision Polymer-HRP Anti-Rabbit IHC Detection System(DAB solution)

Product name	E-Vision Polymer-HRP Anti-Rabbit IHC Detection System(DAB solution)
Sizes	6 mL, 30 mL, 100 mL
Storage	2-8 ℃
Shipping	Shipped with ice pack
Validity	12 months

Product Introduction

Our company-developed Polymer-HRP–labeled IHC secondary detection system is a highly efficient and sensitive immunohistochemistry (IHC) kit. Through advanced polymer technology, horseradish peroxidase (HRP) is conjugated to specific antibodies, forming a stable polymer complex. This unique labeling greatly increases signal intensity and detection sensitivity while reducing background staining. The system combines optimized secondary antibodies with enzyme-labeled polymers, markedly improving sensitivity and specificity, and is suitable for IHC staining of multiple tissue types and antigens.

Product Components

Components	6 mL	30 mL	100 mL
Reagent 1: 3 % H_2O_2	6 mL	30 mL	100 mL
Reagent 2: Normal Goat Blocking Buffer	6 mL	30 mL	100 mL
Reagent 3: Polymer-HRP–labeled Goat Anti-Rabbit IgG	6 mL	30 mL	100 mL
Reagent 4: DAB concentrate(50X)	120 μL	600 μL	2 mL
Reagent 5: DAB Dilution Buffer	6 mL	30 mL	100 mL

***A single slide requires 50-100 μL routinely; so 1 mL can stain about 10-20 slides.**

Experimental procedure(For reference only)

1. Deparaffinization & rehydration: Dewax paraffin sections in xylene and rehydrate through graded ethanol.
2. Antigen retrieval: Select appropriate method (heat—microwave/water bath, pressure, or enzymatic) according to antibody requirements.
3. Endogenous enzyme block: Incubate sections with 3 % H_2O_2 (Reagent 1) for 15–20 min at room temperature.
4. Wash: Rinse with buffer or distilled water, 3–5 min each, 3 times.
5. Blocking: Cover sections with Normal Goat Blocking Buffer (Reagent 2); incubate 30 min at 37 °C.
6. Primary antibody: Apply optimally diluted antibody; incubate overnight at 4 °C or 1 h at 37 °C.
7. Wash: PBST/TBST, 3–5 min each, 3 times.
8. Secondary antibody: Apply Polymer-HRP–labeled Goat Anti-Rabbit IgG (Reagent 3); incubate 30–60 min at room temperature.
9. Wash: PBST/TBST, 3–5 min each, 3 times.
10. Chromogen: Add DAB substrate (1:50; e.g., briefly centrifuge Reagent 4, then mix 1 µL concentrate with 49 µL Dilution Buffer [Reagent 5]; prepare fresh and use within 30 min). Develop 3–10 min, monitor under microscope, and stop when appropriate.
11. Stop reaction: Rinse with buffer or distilled water.
12. Counterstain (optional): Stain nuclei with hematoxylin.
13. Mounting: Seal with mounting medium (e.g., neutral balsam).
14. Microscopy: Examine results under light microscope.

Notes

1. Store reagents at 2–8 °C; do not freeze.
2. Optimize primary and secondary antibody concentrations and incubation times according to experimental needs.
3. Wear lab coat, disposable gloves, and mask for safety and health.
4. For research use only; not for diagnostic or clinical procedures.
5. **A single slide requires 50-100 µL routinely; so 1 mL can stain about 10-20 slides.**

For Research use only

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