Polymer-HRP Anti-Mouse/Rabbit IHC Detection System (DAB solution)
Catalog No:RA10007

Product Information

Polymer-HRP Anti-Mouse/Rabbit IHC Detection System is a highly efficient and sensitive immunohistochemistry (IHC) detection kit. Utilizing the advanced polymer technology, it conjugates horseradish peroxidase (HRP) with specific antibodies to form a stable polymer complex. This unique labeling method significantly enhances signal intensity and detection sensitivity while reducing background staining, offering easy operation and stable performance. This system significantly improves the sensitivity and specificity of detection by combining optimized secondary antibodies with HRP-labeled polymers, and is suitable for immunohistochemical staining of a variety of tissue types and antigens.

Components

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

Basic Information

Product Form	liquid
Size	6mL/30mL/100mL
Storage	2-8℃
Transportation	Packed with Ice bag, 2-8℃
Validity	12 months

Operation steps

1. Dewaxing and hydration: For paraffin sections, use xylene and graded alcohol for dewaxing and hydration .
2. Antigen retrieval: Select the appropriate antigen retrieval method based on the characteristics of the antibody, such as heat retrieval (microwave, water bath), high pressure retrieval or enzyme retrieval.
3. Inactivation of endogenous enzymes : Incubate with 3%H_2O_2 (reagent 1) in water at room temperature for 15-20 minutes to inactivate endogenous peroxidase.
4. Washing: Wash sections with buffer solution(PBST or TBST,etc) or distilled water for 3-5 min each time, repeat 3 times.
5. Blocking: Cover sections with Normal Goat Blocking Buffer (reagent 2) and incubate at 37°C for 30 minutes.
6. Primary antibody incubation: After diluting the primary antibody according to the dilution ratio, evenly cover the sections with the working solution and incubate at 4°C overnight or at 37°C for 1 hour.
7. Washing: Wash sections with PBST or TBST for 3-5 min each time, repeat 3 times.
8. Secondary antibody incubation : Add Polymer-HRP-labeled Goat Anti-Mouse/Rabbit IgG (reagent 3) on the sections and incubate at room temperature for 30-60 minutes.
9. Washing: Wash sections with PBST or TBST for 3-5 min each time, repeat 3 times.
10. Chromogenic reaction: Add DAB working solution (prepared at a 1:50 dilution,e.g. 1μL DAB

concentrate(50X)(reagent 4, please centrifuge before using it) mixed with 49 μL DAB Dilution Buffer(reagent 5); Prepare it fresh and use it within 30 minutes). Allow color development for 3-10 minutes, observe the color change under a microscope, and terminate when appropriate .

11. Terminate the reaction with buffer solution or distilled water.
12. Counterstain (optional): Counterstain nuclei with hematoxylin.
13. Sealing and preservation: Use mounting medium (such as neutral gum) to seal the slides.
14. Microscopic examination : Observe the experimental results under an optical microscope .

Notes

1. The reagents should be stored at 2-8°C and avoid freezing.
2. Optimize primary and secondary antibody concentrations and incubation time according to experimental requirements.
3. For your safety and health, please wear a lab coat, disposable gloves and mask during operation.
4. This product is For Research Use Only, Not for Diagnostic Use.