POLY™ Polymer HRP Goat Anti-Rabbit IHC Kit

Cat #: B-IMWRS46

Size: 100 mL

Storage: Store at 2°C~8°C

Intended use

This product is intended for Immunohistochemical staining, used in working with primary antibodies derived from rabbit.

Mechanism

Several molecules of peroxidase and several molecules of secondary antibodies combine on the same polymer to form a simple and sensitive chromogenic system.

Kit components:

Kit component	Volume	Storage
Reagent 1： Inactivate & seal dual-purpose solution	Light-protective bottle, 100mL	2-8°C
Reagent 3： Polymer HRP (Rabbit)	White bottle, 100mL	2-8°C

Storage

Storage: Store sealed at 2°C to 8°C, for 1 year.

Suggested Protocol

1. Human tissue samples are first fixed with formaldehyde.(Fresh biopsy or surgical tissue samples fixed with formaldehyde for 8-24 hours).
2. The fixed tissues undergo a series of operations including dehydration to prepare wax blocks.
3. The tissue wax blocks are cut into section using a microtome.
4. Manual operation of immunohistochemistry experiment. The recommended routine steps are as follows:
   4.1. Take out the tissue section for the experiment and place them on glass slides. Put them in an oven at 60-65°C and bake for 1-1.5 hours.
   4.2. Place the section in the following staining dishes for gradient reactions:
   - Xylene 10 minutes, twice
   - Xylene 5 minutes
   - Absolute ethanol 5 minutes, twice
   - 95% ethanol 5 minutes
   - 85% ethanol 5 minutes
   - PBS wash for 3 minutes, three times

   4.3. Perform antigen retrieval (refer to the primary antibody supplier's instructions or use conventional methods such as high pressure, microwave etc.)
   4.4. Directly add Reagent 1 Inactivate & seal dual-purpose solution to the tissue based on its size, typically 100 µL, until the tissue is completely covered. Incubate at room temperature for 10 minutes each, followed by PBS wash for 3 minutes, three times.
   This step is usually performed after mild antigen retrieval methods such as water bath or enzyme treatment. Alternatively, it can be added if the tissue itself contains a high level of endogenous peroxidase.
   4.5. Drop the primary antibody onto the tissue based on its size, typically 100 µL, until the tissue is completely covered. Incubate in a humid box for 1 hour. PBS wash for 3 minutes, three times. (The optimal reaction time for the primary antibody may vary slightly depending on the manufacturer.)
5. Add Reagent 3 Polymer HRP (Goat anti-Rabbit), using a volume sufficient to cover all the tissue, typically 100 µL. Incubate at 37°C for 30 minutes.
6. Add DAB or other color development systems compatible with HRP.
7. Terminate the color development by rinsing with tap water, followed by counterstaining with hematoxylin; differentiate and rinse in a blueing solution.
8. Dehydrate with alcohol, clear with xylene, mount with neutral resin, and examine the slides.

Precautions

1. This product is for research use only and should not be used for other purposes.
2. It should be used by professionals.

3. Apply appropriate protective measures to avoid contact of the reagents with the skin and eyes.
4. Dispose of waste liquids in an environmentally friendly manner and in accordance with relevant regulations.

Note:

The product listed herein is for research use only and is not intended for use in human or clinical diagnosis.