

HRP Conjugation Kit

Cat No: BLOK1970

Description

Horseradish peroxidase (Horseradish Peroxidase, HRP) is an important tool enzyme for immunological experiments and detection, and is widely used. The traditional iodine labeling method and glutaraldehyde labeling method are cumbersome and require a large amount of reagents. If the ratio of reagents is unreasonable, it may often lead to the failure of the experiment. On the basis of repeated analysis of the structural characteristics of HRP, this product uses HRP with high-efficiency activity. Activated by the coupling reagent, it can covalently bind to -NH₂ on proteins or antibodies more efficiently; the activated HRP in this product is in the state of dry powder, with stable properties, which is convenient for transportation and long-term storage.

The HRP Conjugation Kit provided by Biotech is suitable for HRP labeling of substances with -NH₂ amino groups, such as small molecule compounds with primary amines, proteins or antibodies. Activated HRP can react efficiently with -NH₂ on proteins or antibodies under the catalysis of labeling buffer. This kit (500 ug) can label 500 ug of antibody.

PRODUCT INFORMATION

Activated HRP powder	1 vial (500 ug)
Labeling Buffer	5.0 mL
Stop Reagent Powder	2.5 mg
Storage Buffer	2.0 mL

Steps**1. Preparation**

1.1. The environment to be labeled is preferably 0.01M pH7.4 PBS, and should not contain glycerol, BSA, sodium azide, amino substances (including glycine, Tris, etc.), EDTA and other substances.

If it contains the above small molecular substances, it needs to be fully dialyzed with 0.01M pH7.4 PBS buffer solution, desalted by desalting column or replaced by ultrafiltration tube ultrafiltration to remove interfering small molecules;

1.2. It is advisable to adjust the substance to be labeled to an appropriate concentration of 2 mg/mL;

1.3. Equilibrate the HRP labeling kit to room temperature before labeling.

2. Antibody labeling

2.1 Add 1/10 volume of Labeling Buffer to the solution of the target substance, and pipette several times with a pipette to mix thoroughly to avoid bubbles. Take an equal amount of horseradish peroxidase into the substance to be labeled, and repeatedly pipette several times with a pipette to mix thoroughly to avoid bubbles, and react at room temperature for about 2 hours in the dark;

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2.2 Add 1 mL of deionized water to Stop Reagent Powder to form a reaction stop solution (2.5mg/ml), take an appropriate amount of reaction stop solution and add it to the reaction solution in step 2.1, the ratio is: add 1 μ L of reaction stop solution for every 10 μ L of reaction solution. Mix well and leave at room temperature for 1 hour.

2.3. After termination, add an equal volume of Storage Buffer, mix well, and store at -20°C .

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