

# Anti His Antibody-HRP

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## 1. Product Description

### 1.1 Product Introduction

The His tag typically consists of 6 or 8 histidine residues. It can be fused to the N-terminus or C-terminus of a fusion protein. Due to its small molecular weight and ease of separation and purification, it is one of the most widely used systems in tag-based protein purification. Antibodies against the His tag enable precise detection and purification of His-tagged fusion proteins. Horseradish Peroxidase (HRP) is conjugated to the anti-His tag antibody through a specific process. In Western blot (WB) experiments, upon adding chemiluminescent substrates A and B (typically luminol and hydrogen peroxide), the luminol reacts with hydrogen peroxide under the catalytic action of HRP to form an unstable peroxide intermediate. This intermediate decomposes, generating an electronically excited species. When this species returns to the ground state, light is emitted, allowing for rapid detection of the His-tagged fusion protein.

### 1.2 Basic Information

Antibody Source: Recombinant Antibody

Cross Reactivity: His-tagged Fusion Proteins

Clonality: Monoclonal Antibody

Conjugate: Horseradish Peroxidase (HRP)

Purification Method: rProtein A Affinity Purified

Storage Buffer: 1× PBS (pH 7.4), 0.05% proclin300, 50% Glycerol

Storage Conditions: Shipped on dry ice. Store at -20°C for up to 2 years. Avoid repeated freeze-thaw cycles.

## 2. Product Applications

WB=1:30000-1:100000

ELISA=1:5000-1:10000

## 3. Additional information

3.1 This product is an HRP-conjugated antibody and must be stored protected from light at -20°C or -80°C.

3.2 This product is highly sensitive. For Western blot (WB), please follow the recommended dilution ratios provided in the manual to avoid non-specific signals.

3.3 NC or PVDF membranes must be activated with methanol prior to transfer. After transfer, ensure thorough coverage with antibody dilution buffer, and avoid creating bubbles during both the transfer and antibody incubation steps.

3.4 This product can generate strong signals after 30-60 minutes of incubation at 37°C. If incubating at room temperature, prolong the duration appropriately.

## 4. Reference Information

1) Expression System: Secretory expression in 293 cells.

2) Protein Information: Recombinant protein with a His tag, approximate size ≈42 kDa.

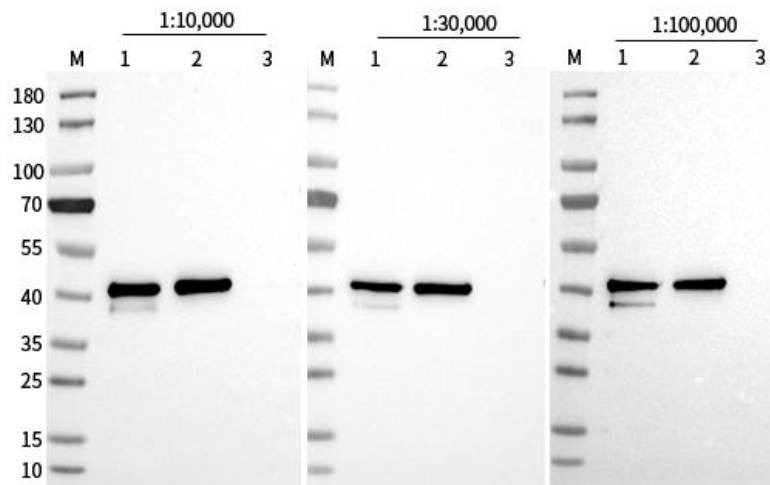
3) Loading Order: Lane 1: Crude medium sample containing approximately 10 ng of the target protein; Lane 2: 10 ng of purified target protein; Lane 3: Bovine Serum Albumin (BSA).

4) Antibody Diluent Volume: 10 mL.

5) Antibody Incubation Conditions: 37°C with shaking for 30 minutes.

6) Detection: ECL chemiluminescent substrate.

7) Results:



1: Medium sample containing the target protein (10 ng); 2: Purified target protein (10 ng); 3: BSA

8) Conclusion: After diluting Anti His Antibody-HRP at ratios of 1:10,000, 1:30,000, and 1:100,000 (in a total antibody diluent volume of 10 mL) and incubating with shaking at 37°C for 30 minutes, distinct signals were observed. The target band was detected at the expected position of 42 kDa. The signal intensity decreased progressively as the dilution ratio increased.

### 5.Related Products

Product	Cat.No.	Size
Anti His Antibody-HRP	BP5016-01	20μl
	BP5016-02	100μl
	BP5016-03	1ml