Anti Myc Antibody-HRP

Index

1. Product Description

1.1 Product Introduction

The human c-Myc gene is a key member of the Myc gene family and is associated with the development of various tumors. Myc is a relatively large protein, with human Myc protein having a molecular weight ranging from 50-70 kDa. The Myc tag is composed of ten amino acids (EQKLISEEDL) derived from amino acids 410-419 of the human Myc protein, and this peptide has a molecular weight of approximately 1.2 kDa. Using recombinant DNA technology, it can be fused to the N- or C-terminus of a target protein, facilitating its purification and detection. Anti-Myc antibodies can be used to detect the expression and intracellular localization of Myc-tagged fusion proteins, as well as for their purification, qualitative, or quantitative analysis. Horseradish Peroxidase (HRP) is conjugated to the anti-Myc 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 Myc-tagged fusion protein.

1.2 Basic Information

Antibody Source: Recombinant Antibody
Cross Reactivity: Myc-tagged Fusion Proteins
Clonality: Monoclonal Antibody
Conjugate: Horseradish Peroxidase (HRP)
Purification Method: Protein A Affinity Purified
Storage Buffer: 1× PBS (pH 7.4), 0.06% 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

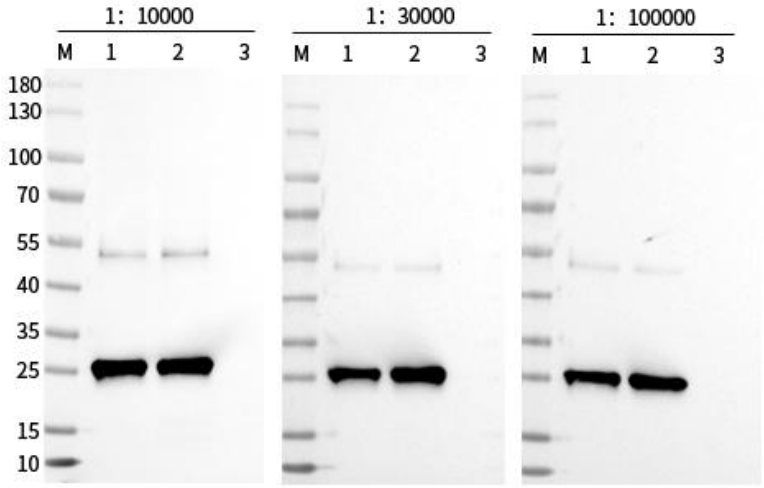
1) Expression System: Secretory expression in 293 cells.
2) Protein Information: Recombinant protein with a Myc tag, approximate size ≈25 kDa.
3) Loading Order: Lane 1: Medium sample containing approximately 10 ng of the target protein; Lane 2: 10 ng of purified target protein; Lane 3: Bovine Serum Albumin (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 Myc 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 25 kDa, with weaker aggregate bands visible around 50-55 kDa. The signal intensity decreased progressively as the dilution ratio increased.

5.Related Products

Product	Cat.No.	Size
Anti Myc Antibody-HRP	BP5012-01	20μl
	BP5012-02	100μl
	BP5012-03	1ml