

Datasheet for ABIN349595
anti-His Tag antibody (HRP)



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Overview

Quantity:	100 µg
Target:	His Tag
Reactivity:	Please inquire
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This His Tag antibody is conjugated to HRP
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Purpose:	6X His Epitope Tag Antibody Peroxidase Conjugated
Immunogen:	Immunogen: This antibody was purified from whole rabbit serum prepared by repeated immunizations with 6X His epitope tag peptide H-H-H-H-H-H conjugated to KLH using maleimide. Immunogen Type: Conjugated Peptide
Sequence:	HHHHHH
Isotype:	IgG
Cross-Reactivity (Details):	This affinity purified antibody is directed against the 6X His motif and is useful in determining its presence in various assays. This polyclonal anti-6X His-tag antibody detects over-expressed proteins containing the 6X His epitope tag.
Characteristics:	Synonyms: rabbit anti-6X HIS EPI TOPE TAG Antibody HRP conjugation, peroxidase conjugated rabbit anti-6X HIS EPI TOPE TAG Antibody, anti-HIS, HIS Antibody, 6X His Tag Antibody,

Product Details

HHHHHH epitope tag antibody

Purification: Affinity purified antibody

Target Details

Target: His Tag

Alternative Name: 6X His ([His Tag Products](#))

Target Type: Tag

Background: Background: Epitope tags are short peptide sequences that are easily recognized by tag-specific antibodies. Due to their small size, epitope tags do not affect the tagged protein's biochemical properties. Most often, sequences encoding the epitope tag are included with target DNA at the time of cloning to produce fusion proteins containing the epitope tag sequence. This allows Anti epitope tag antibodies to serve as universal detection reagents for any tag-containing protein produced by recombinant means. This means that anti-epitope tag antibodies are a useful alternative to generating specific antibodies to identify, immunoprecipitate or immunoaffinity purify a recombinant protein. The anti-epitope tag antibody is usually functional in a variety of antibody-dependent experimental procedures. Expression vectors producing epitope tag fusion proteins are available for a variety of host expression systems including bacteria, yeast, insect and mammalian cells.

Application Details

Application Notes: Immunohistochemistry Dilution: 1:500 - 1:2,000

Application Note: Anti-6X His is optimally suited for monitoring expression of His-tagged fusion proteins. As such, anti-6X His/6X His can be used to identify fusion proteins containing the 6X His epitope. The antibody recognizes the His tag fused either to the amino- or carboxy- termini of targeted proteins. This antibody has been tested by ELISA and western blotting against both the immunizing peptide and His-containing recombinant proteins. Although not tested, this antibody is likely functional for immunoprecipitation and immunocytochemistry.

Western Blot Dilution: 1:2,000 - 1:5,000

ELISA Dilution: 1:5,000

Other: User Optimized

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Reconstitution Volume: 100 µL Reconstitution Buffer: Restore with deionized water (or equivalent)
Concentration:	1.0 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free Preservative: 0.01 % (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!
Preservative:	Gentamicin sulfate
Precaution of Use:	This product contains Gentamicin sulfate: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months

Publications

Product cited in:	<p>Pérez, Liu, Rodionov, Li, Bryant: "Complementation of Cobalamin Auxotrophy in <i>Synechococcus</i> sp. Strain PCC 7002 and Validation of a Putative Cobalamin Riboswitch In Vivo." in: Journal of bacteriology, Vol. 198, Issue 19, pp. 2743-52, (2017) (PubMed).</p> <p>Yi, Ba, Zhang, Ho, Chen: "Single amino acid substitutions in the severe acute respiratory syndrome coronavirus spike glycoprotein determine viral entry and immunogenicity of a major neutralizing domain." in: Journal of virology, Vol. 79, Issue 18, pp. 11638-46, (2005) (PubMed).</p>
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Western Blotting

Image 1. Anti-6X His epitope tag polyclonal antibody detects His-tagged recombinant proteins by western blot. Polyclonal Rabbit-anti-6X His epitope tag at 0.5-1.0 µg/ml was used to detect 1.0 µg of recombinant protein containing the His epitope tag. A 4-20% gradient gel was used to resolve the protein by SDS-PAGE. The protein was transferred to nitrocellulose using standard methods. After blocking, the membrane was probed with the primary antibody for 1 h at room temperature followed by washes and reaction with a 1:2500 dilution of 800 conjugated Gt-a-Rabbit IgG [H&L] MX10 (code 611-132-122) for 30 min at room temperature. LICOR's Infrared Imaging System was used to scan and process the image. Other detection systems will yield similar results.