Datasheet for ABIN964554

anti-His Tag antibody (HRP)

3 Images | 1 Publication

Go to Product page

Overview

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

Product Details

Purpose:	6X His Tag Antibody HRP Conjugated
Immunogen:	Immunogen: This 6X his antibody was produced in mice 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
Clone:	33D10-D2-G8
Isotype:	IgG1 kappa
Cross-Reactivity (Details):	This monoclonal anti-6X His tag antibody detects over-expressed proteins containing the 6X His epitope tag and is useful in determining its presence in various assays.
Characteristics:	Synonyms: mouse anti-6X His Tag HRP conjugated Antibody, peroxidase conjugated mouse anti-6X His Tag Antibody, anti-HIS, HIS Antibody, 6X His Tag Antibody, HHHHHH epitope tag antibody

Product Details

Purification:	6X His antibody is directed against the 6X His motif and was purified from concentrated tissue culture supernate by Protein A chromatography.

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

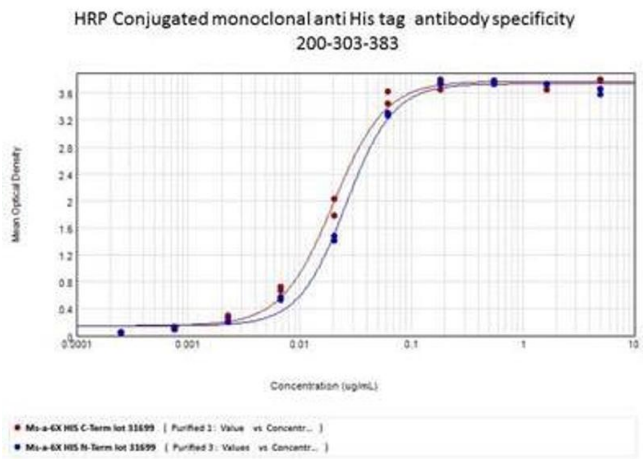
Application Notes:	Immunohistochemistry Dilution: 1:500 - 1:2,500 Application Note: Anti-6X His is optimally suited for monitoring expression of His-tagged fusion proteins. As such, anti-6X His/6X His can be used to identify fusion proteins containing the 6X His epitope. The antibody recognizes the His 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: 1:1,000 - 1:5,000 ELISA Dilution: 1:10,000 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

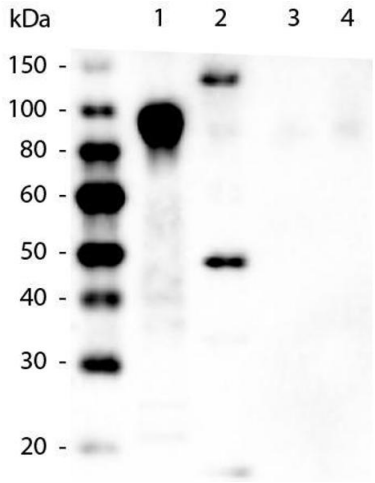
Publications

Product cited in:	Li, Xu, Wang, Gong, Liu, Zheng, Li, Li: "Epitope mapping reveals the binding mechanism of a functional antibody cross-reactive to both human and murine programmed death 1." in: **mAbs**, Vol. 9, Issue 4, pp. 628-637, (2018) (PubMed).



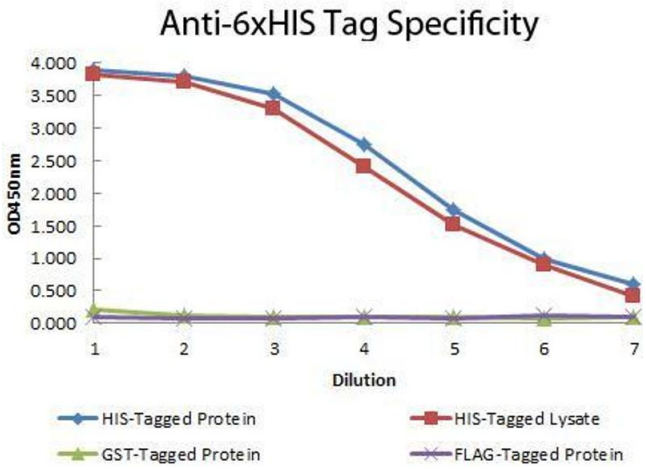
ELISA

Image 1. ELISA of Mouse anti-6xHIS Tag Antibody. Antigen: 6X HIS-tagged conjugated BSA at the N or C terminus of the 6XHis. Coating amount: 0.15ug per welll. Primary antibody (direct detection): HRP conjugated 6xHIS Tag antibody diluted from stock concentration at 100ug/mL. Substrate: TMB .



Western Blotting

Image 2. Western Blot of Mouse anti-6xHIS Tag Antibody. Lane 1: 100ng Purified histidine-tagged recombinant protein. Lane 2: 200ng E. coli cell lysate containing histidine-tagged expression construct. Lane 3: 100ng Purified GST-tagged recombinant protein. Lane 4: 100ng Purified FLAG-tagged recombinant protein. Primary antibody: Mouse anti-6xHIS Tag antibody at 1:5,000 overnight at 4°C. Secondary antibody: Peroxidase mouse secondary antibody at 1:20,000 for 30 min at RT. Block: 5% BLOTTO for 1 hr at RT.



ELISA

Image 3. ELISA of Mouse anti-6xHIS Tag Antibody. Antigen: HIS-tagged purified protein and E. coli cell lysates expressing HIS-Tagged construct, GST- and RON-tagged purified proteins. Coating amount: 0.15ug per welll. Primary antibody: 6xHIS Tag antibody at 100ug/mL. Dilution series: 2-fold. Mid-point concentration: 200ng/mL. Secondary antibody: Peroxidase mouse secondary antibody at 1:10,000. Substrate: TMB .