Datasheet for ABIN964552

anti-His Tag antibody

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Overview

Quantity:	100 µg
Target:	His Tag
Reactivity:	Please inquire
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), ELISA, Immunoprecipitation (IP)

Product Details

Purpose:	6X His Epitope Tag Antibody
Immunogen:	Immunogen: HIS Tag 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.
Characteristics:	Synonyms: mouse anti-6X His Tag Antibody, anti-HIS, HIS Antibody, 6X His Tag Antibody, HHHHHH epitope tag antibody
Purification:	6X HIS Epitope Tag antibody was purified from concentrated tissue culture supernate by Protein A chromatography and is directed against the 6X His motif and is useful in determining

Product Details

	its presence in various assays.
Sterility:	Sterile filtered

Target Details

Target:	His Tag
Alternative Name:	6X His (His Tag Products)
Target Type:	Tag
Background:	Background: 6X His Tag Antibody as well as other 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:	Application Note: Anti-6X His is optimally suited for monitoring expression of His-tagged fusion proteins. As such, Anti-6X His/6XHIS can be used to identify fusion proteins that contain 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: 1:1000 Immunoprecipitation Dilution: 1:200 ELISA Dilution: 1:75,000 Other: FLUORESCENT POLARIZATION: 2 - 20 nMFRET: 2 - 20 nM
Restrictions:	For Research Use only

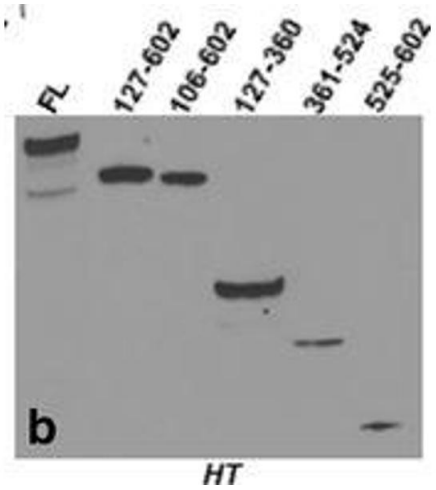
Handling

Format:	Liquid
Concentration:	3.0 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store 6X HIS Tag Antibody at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. Anti-6X HIS Tag is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months

Publications

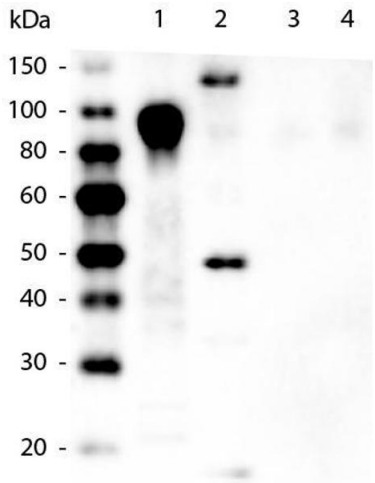
Product cited in:	Zhou, Pu, Chen, Hao, Gao, Ali, Hsiao, Stock, Goulian, Zhu: "Thiol-based functional mimicry of phosphorylation of the two-component system response regulator ArcA promotes pathogenesis in enteric pathogens." in: **Cell reports**, Vol. 37, Issue 12, pp. 110147, (2022) (PubMed). Vela-Corcía, Romero, de Vicente, Pérez-García: "Analysis of β-tubulin-carbendazim interaction reveals that binding site for MBC fungicides does not include residues involved in fungicide resistance." in: **Scientific reports**, Vol. 8, Issue 1, pp. 7161, (2019) (PubMed). Chavda, Ling, Majernick, Planey: "Antiproliferative factor (APF) binds specifically to sites within the cytoskeleton-associated protein 4 (CKAP4) extracellular domain." in: **BMC biochemistry**, Vol. 18, Issue 1, pp. 13, (2017) (PubMed). Ramón-García, Ng, Jensen, Dosanjh, Burian, Morris, Folcher, Eltis, Grzesiek, Nguyen, Thompson: "WhiB7, an Fe-S-dependent transcription factor that activates species-specific repertoires of drug resistance determinants in actinobacteria." in: **The Journal of biological chemistry**, Vol. 288, Issue 48, pp. 34514-28, (2014) (PubMed).

Images



Western Blotting

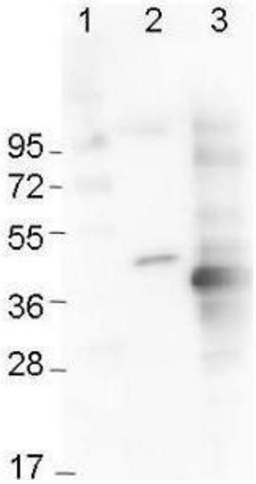
Image 1. Characterization of purity and antigenicity of CKAP4 constructs. a SDS-PAGE of normalized amounts of purified CKAP4 constructs followed by silver staining. b-f Western blots using anti-His tag, anti-CKAP4 (G1/296), anti-CKAP4 (epitope region: 216-265), anti-CKAP4 (epitope region: 375-425), and anti-CKAP4 (epitope region: 552-602) primary antibody, respectively. Separate blots were used for each antibody. Molecular weight standards are indicated on left and right - figure provided by CiteAb. Source: PMID28893174



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.

Images



Western Blotting

Image 3. Western Blot using Immunochemicals' Mouse Anti-6x-His Epitope Tag Monoclonal Antibody showing detection of the 6xHis sequence on N-terminally-tagged (lane 2) and C-terminally-tagged recombinant proteins (lane 3). In lane 1 are molecular weight markers.

Please check the product details page for more images. Overall 4 images are available for ABIN964552.