

Datasheet for ABIN100492

anti-His Tag antibody

5 Images

14 Publications



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Overview

Quantity:	100 µg
Target:	His Tag
Reactivity:	Please inquire
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Dot Blot (DB)

Product Details

Purpose:	6X His Epitope Tag Antibody
Immunogen:	<p>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.</p> <p>Immunogen Type: Conjugated Peptide</p>
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 Epitope Tag Antibody, anti-HIS, HIS Antibody, 6X His Tag Antibody, HHHHHH epitope tag antibody
Purification:	Affinity purified antibody

Product Details

Sterility: Sterile filtered

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 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: 1:500 - 1:1,000
ELISA Dilution: 1:10,000 - 1:40,000
Other: User Optimized

Restrictions: For Research Use only

Handling

Format: Liquid

Handling

Concentration:	1.0 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 vial 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. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months

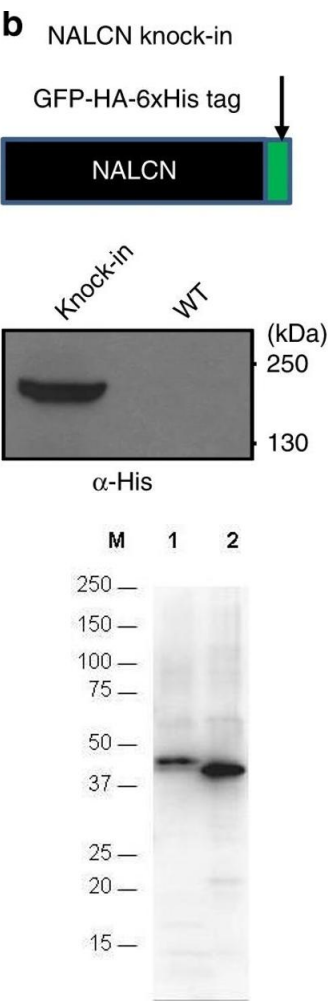
Publications

Product cited in:	<p>Mart Nez-Cruz, Romero, Hierrezuelo, Thon, de Vicente, P Rez-Garc A: "Effectors with chitinase activity (EWCAs), a family of conserved, secreted fungal chitinases that suppress chitin-triggered immunity." in: The Plant cell, Vol. 33, Issue 4, pp. 1319-1340, (2021) (PubMed).</p> <p>Wie, Bharthur, Wolfgang, Narayanan, Ramsey, Aranda, Zhang, Zhou, Ren: "Intellectual disability-associated UNC80 mutations reveal inter-subunit interaction and dendritic function of the NALCN channel complex." in: Nature communications, Vol. 11, Issue 1, pp. 3351, (2020) (PubMed).</p> <p>Koh, Cao, Mangos, Tardi, Dande, Lee, Samelko, Altintas, Schmitz, Lee, Mukherjee, Peev, Cimbaluk, Reiser, Hahm: "Nonimmune cell-derived ICOS ligand functions as a renoprotective $\alpha\beta$ integrin-selective antagonist." in: The Journal of clinical investigation, Vol. 129, Issue 4, pp. 1713-1726, (2019) (PubMed).</p> <p>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).</p>
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Lecona, Rodriguez-Acebes, Specks, Lopez-Contreras, Ruppen, Murga, Muñoz, Mendez, Fernandez-Capetillo: "USP7 is a SUMO deubiquitinase essential for DNA replication." in: **Nature structural & molecular biology**, Vol. 23, Issue 4, pp. 270-7, (2016) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)

Images

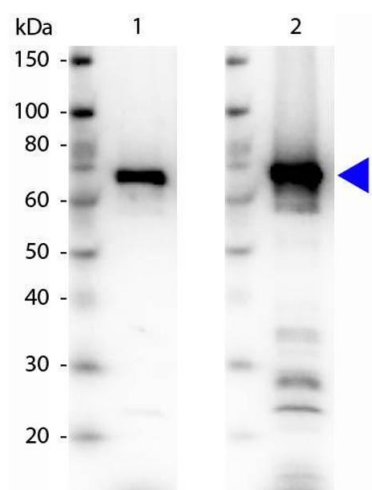


Western Blotting

Image 1. A knock-in mouse line with NALCN tagged with GFP, HA, and His tags (NALCN-GFP-HA-His mice). Upper, schematic design. Lower, total brain proteins (100 µg) prepared from the triple-tagged mice and wild-type (non-tagged) mice were immunoblotted with anti-His antibody. Source: PMID32620897

Western Blotting

Image 2. Anti-6X His epitope tag polyclonal antibody detects His-tagged recombinant proteins by western blot. Polyclonal rabbit



Western Blotting

Image 3. Western blot of Rabbit Anti-6xHIS Epitope Tag antibody. Lane: NFR1-HIS recombinant protein. Load: 50 ng per lane. Primary antibody - 1: NRF1 antibody at 1:1,000 overnight at 4°C. Primary antibody - 2: 6xHIS Epitope tag antibody at 1:1,000 overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:40,000 for 30 min at RT. Blocking: ABIN925618 for 30 min at RT. Predicted/observed size: 67 kDa, 67 kDa for NRF1-His tagged. Other band(s): None.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN100492.