

Datasheet for ABIN387699

anti-His Tag antibody

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Overview

Quantity:	100 µg
Target:	His Tag
Reactivity:	Please inquire
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This His Tag antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunoprecipitation (IP), Immunofluorescence (IF), Flow Cytometry (FACS)

Product Details

Immunogen:	A synthetic peptide HHHHHH coupled - KLH
Sequence:	HHHHHH
Clone:	6G2A9
Isotype:	IgG
Specificity:	THE™His Tag Antibody, mAb, Mouse recognizes C-terminal, N-terminal, and internal His tagged fusion proteins.
Characteristics:	Anti-His mAb is produced from mice ascites and purified by protein A affinity column. This antibody recognizes native as well as denatured forms of synthetic polyhistidine and polyhistidine-tagged fusion proteins. The product reacts with fusion proteins expressed in bacteria, insect cells, and mammalian cells. Anti-His mAb recognizes His tags placed at N-terminal, C-terminal, and internal regions of fusion proteins. Anti-His mAb can be used in

Product Details

Western blot analyses, Dot blot analyses, ELISA, immunofluorescent staining, and flow cytometry of cultured cells.

Purification: Protein A affinity column

Target Details

Target: His Tag

Abstract: [His Tag Products](#)

Target Type: Tag

Background: Monoclonal antibodies specific to six histidine tags can greatly improve the effectiveness of several different kinds of immunoassays, helping researchers identify, detect, and purify polyhistidine fusion proteins in bacteria, insect cells, and mammalian cells. However, since 6XHis-tag is poorly immunogenic, it needs to be conjugated to KLH or some other carrier as an immunogen. After hundreds of selection cycles, researchers at successfully isolated an antibody against His-tag. Anti-His mAb (subtype IgG1) has very high affinity. Tests performed at show that the antibody can also recognize 4xHis- and 5xHis-tags. This means that even if the 6xHis-tag is only partially exposed, it will still be recognized and bound by this antibody.

Application Details

Application Notes: Working concentrations for specific applications should be determined by the investigator. The appropriate concentrations may be affected by secondary antibody affinity, antigen concentration, the sensitivity of the method of detection, temperature, the length of the incubations, and other factors. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

ELISA: 0.05-0.2 µg/mL

Western blot: 0.1-0.2 µg/mL

Immunoprecipitation (IP): 1 µg/mL

Immunofluorescent staining: 1 µg/mL

Flow cytometry: 1 µg/mL

Other applications: user-optimized

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Buffer:	PBS, pH 7.4, containing 0.02 % Sodium azide
Preservative:	Sodium azide
Precaution of Use:	WARNING: Reagents contain sodium azide. Sodium azide is very toxic if ingested or inhaled. Avoid contact with skin, eyes, or clothing. Wear eye or face protection when handling. If skin or eye contact occurs, wash with copious amounts of water. If ingested or inhaled, contact a physician immediately. Sodium azide yields toxic hydrazoic acid under acidic conditions. Dilute azide-containing compounds in running water before discarding to avoid accumulation of potentially explosive deposits in lead or copper plumbing.
Handling Advice:	Avoid repeated freezing and thawing cycles.
Storage:	4 °C/-20 °C
Storage Comment:	The antibody is stable in lyophilized form if stored at -20°C or below. The reconstituted antibody can be stored for 2-3 weeks at 2-8°C. For long term storage, aliquot and store at -20°C or below.

Publications

Product cited in:	<p>Kaufmann, Brangsch, Kader, Saatz, Mangarova, Zacharias, Kempf, Schwaar, Ponader, Adams, Möckel, Botnar, Taupitz, Mägdefessel, Traub, Hamm, Weller, Makowski: "ADAMTS4-specific MR probe to assess aortic aneurysms in vivo using synthetic peptide libraries." in: Nature communications, Vol. 13, Issue 1, pp. 2867, (2022) (PubMed).</p> <p>Dupont-Deshorgue, Oudart, Brassart, Deslee, Perotin, Diebold, Monboisse, Ramont, Brassart-Pasco: "A competitive enzyme-linked immunosorbent assay for quantification of tetrastatin in body fluids and tumor extracts." in: Analytical biochemistry, Vol. 482, pp. 16-21, (2015) (PubMed).</p> <p>Locke, Toth, Petroski: "Lys11- and Lys48-linked ubiquitin chains interact with p97 during endoplasmic-reticulum-associated degradation." in: The Biochemical journal, Vol. 459, Issue 1, pp. 205-16, (2014) (PubMed).</p> <p>Kitevska, Roberts, Pantaki-Eimany, Boyd, Scott, Hawkins: "Analysis of the minimal specificity of caspase-2 and identification of Ac-VDTTD-AFC as a caspase-2-selective peptide substrate." in: Bioscience reports, (2014) (PubMed).</p>
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Duquesne, Bozonnet, Bordes, Dumon, Nicaud, Marty: "Construction of a highly active xylanase displaying oleaginous yeast: comparison of anchoring systems." in: **PLoS ONE**, Vol. 9, Issue 4, pp. e95128, (2014) ([PubMed](#)).

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

Validation report #102832 for Western Blotting (WB)

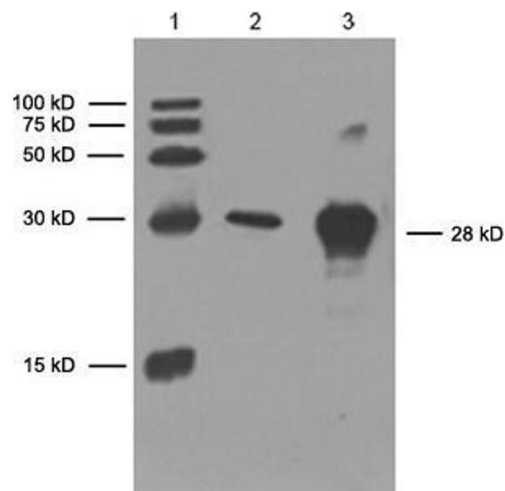
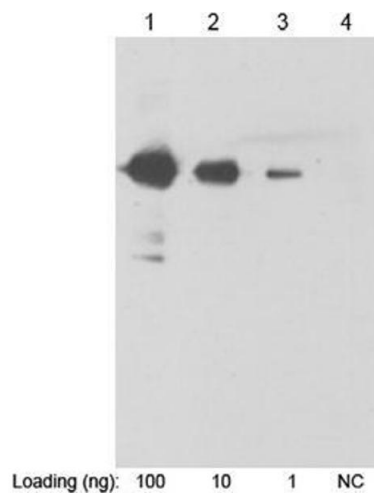


Image 1. Lane 1: 6x His Protein Ladder. Lane 2: N-terminal His-fusion proteinLane 3: C-terminal His-fusion proteinPrimary antibody: 1 µg/mL Anti-His Monoclonal Antibody (ABIN387699) Secondary Antibody: Goat Anti-Mouse IgG (H&L) [HRP] Polyclonal Antibody (ABIN398387, 1: 10,000)



Western Blotting
Image 2. Lane 1-3: Multiple Tag Cell Lysate (ABIN1536505) Lane 4: Negative controlPrimary Antibody: 1 µg/mL Anti-His Monoclonal Antibody (ABIN387699) Secondary Antibody: Goat Anti-Mouse IgG (H&L) [HRP] Polyclonal Antibody (ABIN398387, 1: 10,000)

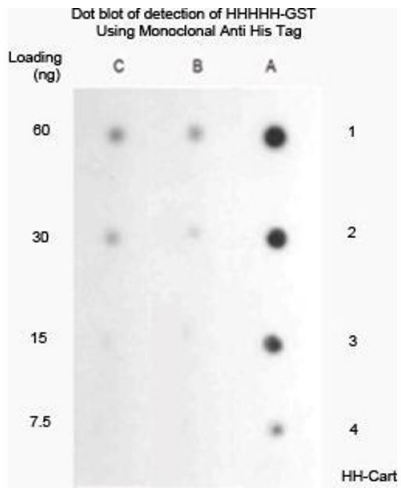


Image 3. A. Antibodies-Online (ABIN387699) B. Company Q#1C. Company Q#2Note: Whole cell lysate containing HHHHH-GST was spotted for Dot blot.