

Datasheet for ABIN100493
anti-His Tag antibody (Biotin)



[Go to Product page](#)

1 Image 7 Publications

Overview

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

Product Details

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.
Sequence:	HHHHHH
Isotype:	IgG
Characteristics:	Concentration Definition: by UV absorbance at 280 nm

Target Details

Target:	His Tag
Alternative Name:	6 X His Tag (His Tag Products)
Target Type:	Tag
Background:	Epitope tags are short peptide sequences that are easily recognized by tag-specific antibodies.

Target Details

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. Supplier produces anti-epitope tag antibodies against many common epitope tags including Myc, GST, GFP, 6X His, MBP, FLAG and HA. Supplier also produces antibodies to other tags including FITC, Rhodamine (TRITC), DNP and biotin.

Application Details

Application Notes: 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.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Restore with deionized water (or equivalent)

Concentration: 1.0 mg/mL

Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

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

Publications

Product cited in:

Blomberg, Rizwan, Böhlin-Wiener, Elfaitouri, Julin, Zachrisson, Rosén, Gottfries: "Antibodies to Human Herpesviruses in Myalgic Encephalomyelitis/Chronic Fatigue Syndrome Patients." in: **Frontiers in immunology**, Vol. 10, pp. 1946, (2019) ([PubMed](#)).

Place, Williamson, Yuzefpolskiy, Katkere, Sarkar, Kalia, Kirimanjeswara: "Development of a novel Francisella tularensis Live Vaccine Strain expressing ovalbumin provides insight into antigen-specific CD8+ T cell responses." in: **PLoS ONE**, Vol. 12, Issue 12, pp. e0190384, (2018) ([PubMed](#)).

Rönnerberg, Gustafsson, Vapalahti, Emmerich, Lundkvist, Schmidt-Chanasit, Blomberg: "Compensating for cross-reactions using avidity and computation in a suspension multiplex immunoassay for serotyping of Zika versus other flavivirus infections." in: **Medical microbiology and immunology**, Vol. 206, Issue 5, pp. 383-401, (2018) ([PubMed](#)).

Song, Chang, Ma, Tan: "Single-Molecule Fluorescence Methods to Study Plant Hormone Signal Transduction Pathways." in: **Frontiers in plant science**, Vol. 8, pp. 1888, (2017) ([PubMed](#)).

Rönnerberg, Vapalahti, Goeijenbier, Reusken, Gustafsson, Blomberg, Lundkvist: "Serogrouping and seroepidemiology of North European hantaviruses using a novel broadly targeted synthetic nucleoprotein antigen array." in: **Infection ecology & epidemiology**, Vol. 7, Issue 1, pp. 1350086, (2017) ([PubMed](#)).

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

Images



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.