abcam

ab27025

Biotin Anti-6X His tag® antibody

Anti-6X His tag® antibody conjugated to Biotin is a rabbit polyclonal antibody suitable for ELISA, flow cytometry, Western blot.

Key facts

Isotype	IgG
Host species	Rabbit
Conjugation	Biotin
Storage buffer	pH: 7.2 Preservative: 0.1% Sodium azide Constituents: PBS, 0.2% BSA
Form	Liquid
Clonality	Polyclonal
Immunogen	Chemical / Small Molecule corresponding to 6X His tag®.
Purification technique	Affinity purification Immunogen
Specificity	ab27025 reacts to recombinant proteins containing the 6X His tag®.
Concentration	1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →
Purification notes	This antibody was purified using the peptide immobilized on a solid support.

Reactivity data

Flow Cyt

Expected

Species	Tag
Dilution info	-

Notes	ab200208 - Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.

ELISA

Tested

Species	Tag
Dilution info	1/2000 - 1/10000
Notes	-

WB

Expected

Species	Tag
Dilution info	1/1000 - 1/5000
Notes	-

Target data

See full target information 6X His tag®

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Storage information	Avoid freeze / thaw cycle

Notes

What is this antibody validated in?
Biotin Anti-6X His tag® antibody (ab27025) is a rabbit polyclonal antibody and is validated for use in Western Blot (WB), Flow Cytometry (Flow Cyt), ELISA. **Tagged protein detection**
6X His tag® antibodies are used to visualize proteins labelled with this tag in a variety of applications.

HIS-TAG® is a trademark of EMD Biosciences, Inc.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	The 6X His tag is a sequence commonly used for protein purification detection and immobilization. It consists of six histidine residues that bind to metal ions like nickel or cobalt. This makes it a highly efficient tag for affinity chromatography. His tag antibodies such as anti-His HRP facilitate the detection of His-tagged proteins in various assays. Being a small tag with a typical molecular weight of about 0.84 kDa it minimally interferes with protein function. Many proteins expressed in E. coli and other expression systems carry the 6X His tag for ease of purification and analysis.
Biological function summary	Proteins tagged with the 6X His tag often play roles in studies involving recombinant proteins. The tag itself does not alter the biological function of the target protein. It is not part of any natural protein complex but aids in the study of such complexes. Researchers use His tag antibodies like anti-His to specifically target and study these tagged proteins without cross-reactivity to other proteins.
Pathways	The incorporation of the 6X His tag into proteins allows them to be studied more efficiently in various biological pathways. It can be part of pathways like signal transduction or metabolic pathways. When tagged proteins interact with other molecules such as kinases or receptors researchers can track these interactions using the tag and anti-Histidine antibodies. This technique informs on proteins that are hard to purify due to low abundance or instability.
Associated diseases and disorders	The 6X His tag itself does not have direct implications. However proteins of interest in disease models often carry the tag which allows researchers to purify and study them in detail. For example cancer-related proteins may be expressed with a His tag to understand their role in tumorigenesis. Similarly proteins involved in metabolic disorders could be tagged which helps in analyzing specific interactions or functions disrupted in diseases.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

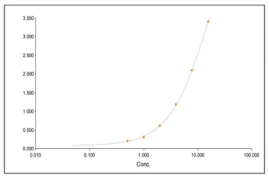
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

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1 product image



ELISA - Biotin Anti-6X His tag® antibody (ab27025)

Antigen concentration: 1000 ng/well. Secondary: Avidin-HRP 100 ng/mL. Developed with TMB (10 minutes). Microplate reader set at 450nm.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.