abcam

ab200537

Anti-6X His tag® antibody [RM146]

Anti-6X His tag® antibody [RM146] (ab200537) is a rabbit monoclonal antibody detecting 6X His tag® in **Western Blot, Flow Cytometry, IP**.

- Recombinant format for unrivalled batch-batch consistency

Lab Essentials | Recombinant

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	Preservative: 0.09% Sodium azide Constituents: PBS, 50% Glycerol (glycerin, glycerine), 1% BSA
Form	Liquid
Clonality	Monoclonal
Clone number	RM146
Purification technique	Affinity purification Protein A
Specificity	ab200537 reacts to recombinant proteins containing the 6X His tag® or 10X His tag® fused to either the amino or carboxy terminus. No cross reactivity with other endogenous protein in mammalian or bacteria cells.
Concentration	1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →
Purification notes	Purified from an animal origin–free culture supernatant.

Reactivity data

ICC

Tested

Species	Tag
Dilution info	0.5-2 µg/mL
Notes	-

IP

Tested

Species	Tag
Dilution info	0.5-2 µg/mL
Notes	-

Flow Cyt

Expected

Species	Tag
Dilution info	0.5-2 µg/mL
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

WB

Tested

Species	Tag
Dilution info	0.1-1 µg/mL
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
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

What is this antibody validated in?
Anti-6X His tag® antibody [RM146] (ab200537) is a rabbit recombinant monoclonal antibody and is validated for use in Western Blot (WB), Flow Cytometry (Flow Cyt), Immunoprecipitation (IP). **Tagged protein detection**
6X His tag® antibodies are used to visualize proteins labelled with this tag in a variety of applications.

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

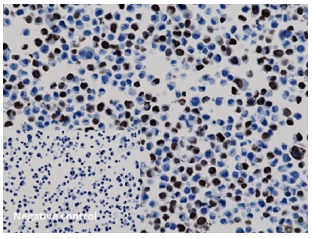
We do not recommend this combination. It is not covered by our product promise.

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.

1 product image



Immunocytochemistry - Anti-6X His tag® antibody [RM146] (ab200537)

6X His tag® Immunocytochemistry staining using rabbit Anti-6X His tag® antibody

Immunohistochemical analysis of 293T cells expressing His-Tag nuclear protein X with ab200537 at 0.1 - 1 µg/mL. The negative control in the inset shows immunohistochemical staining of untransfected HepG2 cells with ab200537 at 0.1 - 1 µg/mL.

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