

Anti-6X His tag® antibody [4D11] ab5000

★★★★☆ [4 Abreviews](#) [30 References](#) [4 Images](#)

Overview

Product name	Anti-6X His tag® antibody [4D11]
Description	Mouse monoclonal [4D11] to 6X His tag®
Host species	Mouse
Tested applications	Suitable for: Dot blot, ELISA, WB, IP, ICC/IF, Flow Cyt
Species reactivity	Reacts with: Species independent
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Epitope	This antibody was shown to recognize an epitope (HHHHHHGS) encoded by the polylinker of several expression vectors (including pDS:RBSII, pQE-30, and pQE-50).
General notes	<p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact orders@abcam.com.</p> <p>HIS-TAG® is a trademark of EMD Biosciences, Inc.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Add glycerol to a final volume of 50% for extra stability and aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	<p>pH: 7.40</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituents: 6.97% L-Arginine, PBS</p>
Purity	Protein G purified
Clonality	Monoclonal
Clone number	4D11

Myeloma	NS1
Isotype	IgG2a
Light chain type	kappa

Applications

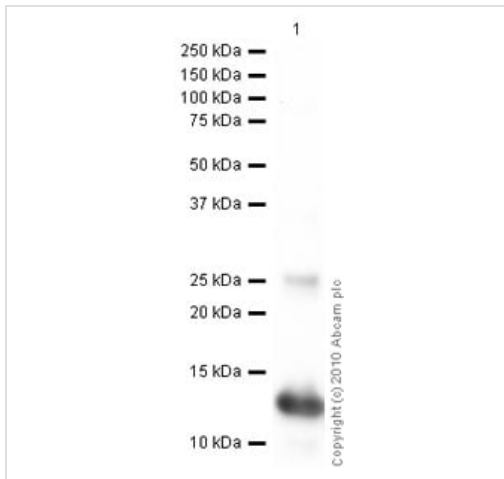
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab5000 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
AP		Use at an assay dependent concentration.
Dot blot		Use at an assay dependent concentration.
ELISA		Use at an assay dependent concentration.
WB	★★★★★ (2)	1/1000.
IP	★★★★★ (1)	Use at an assay dependent concentration. See Abreview.
ICC/IF	★★★★★ (1)	Use at an assay dependent concentration.
Flow Cyt		Use at an assay dependent concentration. ab170191 - Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody.

Target

Relevance	The H-H-H-H-H-H motif is used as a tag on many recombinant proteins to facilitate purification. His-tags can be fused to the amino- or carboxy- termini of proteins in transfected or transformed cells.
Cellular localization	Depends upon the localization of the parent protein tagged with hexahistidine.

Images



Western blot - Anti-6X His tag® antibody [4D11] (ab5000)

Anti-6X His tag® antibody [4D11] (ab5000) at 1/1000 dilution + 6X His Tagged Protein at 1 µg

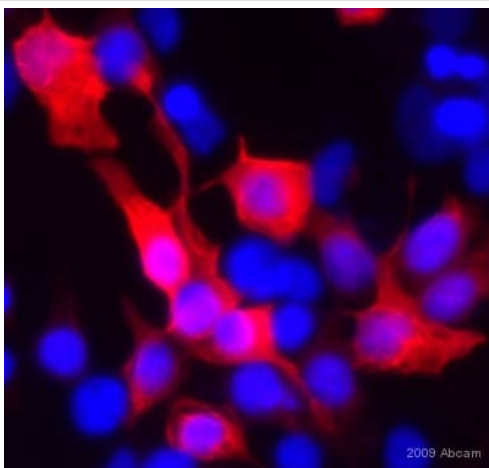
Secondary

Goat polyclonal to Mouse IgG - H&L - Pre-Adsorbed (HRP) ([ab65485](#)) at 1/3000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Exposure time: 30 seconds



Immunocytochemistry/ Immunofluorescence - Anti-6X His tag® antibody [4D11] (ab5000)

This image is courtesy of an Abreview submitted by Dr Vladimir Milenkovic

ab5000 staining Human HEK 293 cells transfected with CACNB3-His by ICC/IF. Cells were PFA fixed and permeabilized in 0.5% Triton X-100 prior to blocking in 5% serum for 20 minutes at 25°C. The primary antibody (1/250 in 1% goat serum, 0.1% TX100, 1X PBS) was incubated with the sample for 16 hours at 4°C. An Alexa Fluor® 546 conjugated goat anti-mouse antibody (1/500) was used as the secondary. DAPI was used for nuclei staining (blue).



Western blot - Anti-6X His tag® antibody [4D11] (ab5000)

This image is courtesy of an Abreview submitted by Dr Vladimir Milenkovic

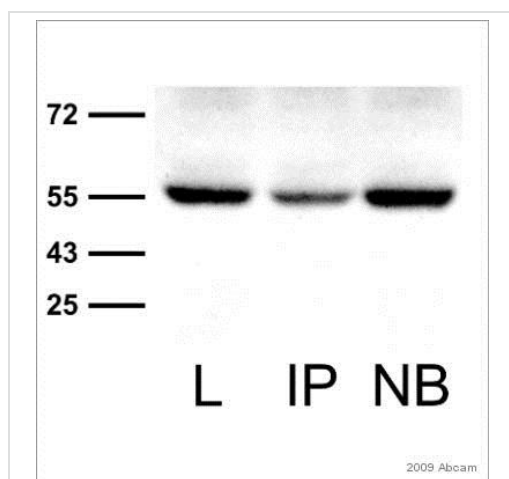
All lanes : Anti-6X His tag® antibody [4D11] (ab5000) at 1/2000 dilution

Lane 1 : Lysates prepared from HEK-293 cells

Lane 2 : Lysates prepared from HEK-293 cells transfected with Beta3-His (CACNB3)

Secondary

All lanes : HRP-conjugated goat anti-mouse IgG polyclonal at 1/5000 dilution



Immunoprecipitation - Anti-6X His tag® antibody [4D11] (ab5000)

This image is courtesy of an Abreview submitted by Dr Vladimir Milenkovic

ab5000 Immunoprecipitate in human HEK293 whole cell lysate. 25µg of cell lysate incubated with primary antibody (undiluted) and matrix (Protein G) for 16 hours at 4°C. For western blotting an undiluted HRP-Goat anti-rabbit IgG polyclonal was used. Beta3-His fusion protein was immunoprecipitated using anti His Ab, and specific beta3a band (56kDa) was detected using anti beta3 Ab

Lane 1. Lysate of HEK293 cells expressing beta3-His (CACNB3)

Lane 2. IP with anti His Ab

Lane 3. Non bound fraction

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