

Anti-6X His tag® antibody [HIS.H8] ab18184

★★★★★ [32 Abreviews](#) [312 References](#) [5 Images](#)

Overview

Product name	Anti-6X His tag® antibody [HIS.H8]
Description	Mouse monoclonal [HIS.H8] to 6X His tag®
Host species	Mouse
Specificity	Recognizes His-tagged recombinant proteins or His-tagged proteins overexpressed in cells. ab18184 reacts to recombinant proteins containing the 6X His tag® or 10X His tag® fused to either the amino or carboxy terminus.
Tested applications	Suitable for: ICC/IF, ELISA, Dot blot, WB, IP
Species reactivity	Reacts with: Species independent
Immunogen	Synthetic peptide corresponding to 6X His tag®.
General notes	<p>This product was changed from ascites to tissue culture supernatant on 5th February 2018. Please note that the dilutions may need to be adjusted accordingly. If you have any questions, please do not hesitate to contact our scientific support team.</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). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Preservative: 0.05% Sodium azide Constituent: PBS
Purity	Protein A purified

Purification notes	Purified from TCS by Protein A affinity chromatography
Clonality	Monoclonal
Clone number	HIS.H8
Isotype	IgG2b

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab18184 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
ICC/IF	★★★★★ (3)	1/200.
ELISA	★★★★★ (1)	Use at an assay dependent concentration.
Dot blot		Use at an assay dependent concentration.
WB	★★★★★ (21)	1/1000.
IP	★★★★★ (5)	1/200.

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



Immunoprecipitation - Anti-6X His tag® antibody
[HIS.H8] (ab18184)

This image is courtesy of an Abreview submitted by Mr Chris Tracy

Immunoprecipitation of His/FLAG tagged PDCD5 using ab18184 at 1/100 dilution.

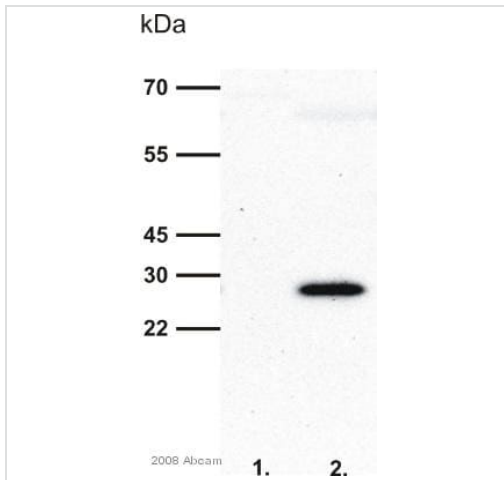
Lane 1 : MW Ladder (from top 120, 85, 50, 34, 25, 19 kDa)

Lanes 2-5 : Immunoprecipitation of His/FLAG tagged PDCD5 using ab18184 from mixture of ~50 ng purified His/FLAG tagged PDCD5 and 15 µL RRL in 300 µL buffer.

Lanes 6-9 : Purified PDCD5 from E. coli with ~60-70 ng protein.

The lowest band in each lane is ~ 20 kDa and is PDCD5. The upper bands in lanes 2-5 are the heavy chain (~50 kDa, runs as doublet) and light chain (~25 or 26 kDa).

Western Blot was performed with a mouse anti-FLAG primary antibody at 1/2000 dilution. An IRDye®800CW-conjugated goat anti-mouse IgG was used as a secondary antibody.



Western blot - Anti-6X His tag® antibody [HIS.H8] (ab18184)

This image is courtesy of an Abreview submitted by Vladimir Milenkovic

All lanes : Anti-6X His tag® antibody [HIS.H8] (ab18184) at 1/5000 dilution

Lane 1 : ARPE-19 whole cell lysate - non-transfected

Lane 2 : ARPE-19 whole cell lysate - transfected with rRab27a-His

Lysates/proteins at 20 µg per lane.

Secondary

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

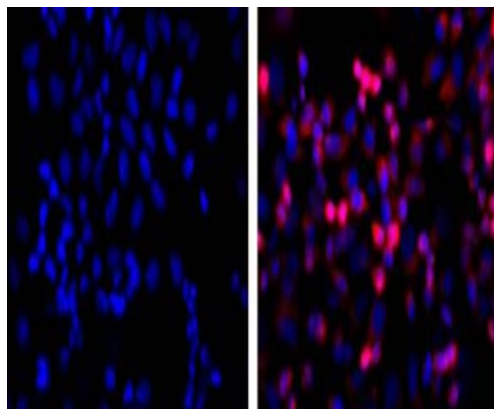
Developed using the ECL technique.

Performed under reducing conditions.

Exposure time: 5 minutes

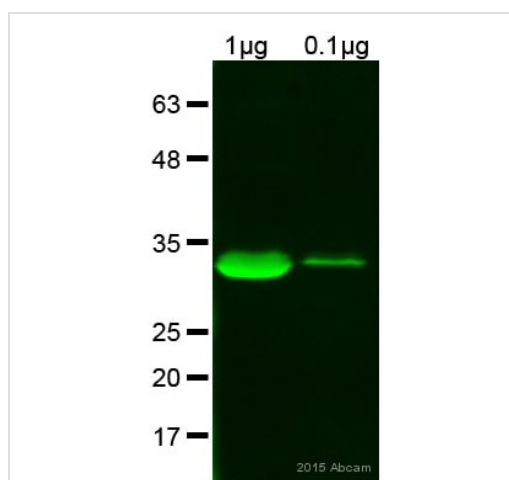
Blocked with 5% milk for 30 minutes at 25°C.

Incubated with the primary antibody for 16 hours at 4°C in 1X PBS/Tween, 5% milk.



Immunocytochemistry/ Immunofluorescence - Anti-6X His tag® antibody [HIS.H8] (ab18184)

LEFT: untransfected control; RIGHT: anti-His (in red) on His-tagged fusion proteins in HEK293 cells. Both counterstained with DAPI (in blue).



Western blot - Anti-6X His tag® antibody [HIS.H8] (ab18184)

This image is courtesy of an Abreview submitted by Rachel Loh

All lanes : Anti-6X His tag® antibody [HIS.H8] (ab18184) at 1/1000 dilution

Lane 1 : 6x His-tagged protein expressed in BL21 (pET15b) at 1 µg

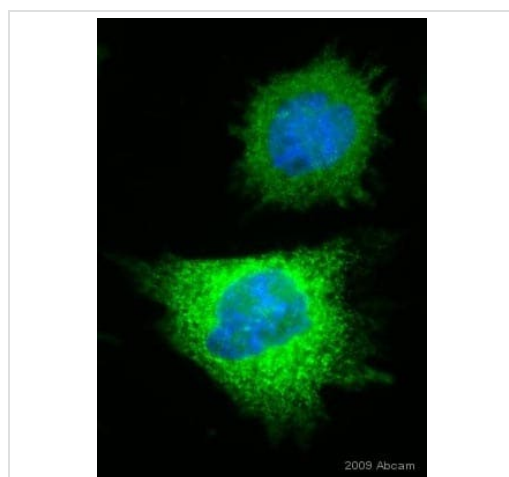
Lane 2 : 6x His-tagged protein expressed in BL21 (pET15b) at 0.1 µg

Secondary

All lanes : IRDye® 800CW goat anti-mouse IgG (H+L) polyclonal at 1/5000 dilution

Performed under reducing conditions.

Exposure time: 5 minutes



Immunocytochemistry/ Immunofluorescence - Anti-6X His tag® antibody [HIS.H8] (ab18184)

This image is courtesy of an anonymous abreview.

ab18184 at a 1/1000 dilution staining 6X His tag in transfected human HEK293 cells by Immunocytochemistry/ Immunofluorescence incubated for 12 hours at 22°C. PFA fixed. Permeabilized using 0.1% Triton X-100 in PBS. Blocked using 3% BSA for 1 hour at 22°C. Secondary used at a 1/1000 dilution polyclonal Goat anti-mouse IgG (H+L) conjugated to Alexa Fluor 488 (green). DAPI staining (blue).

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