

# Anti-6X His tag® antibody ab9108

★★★★☆ [25 Abreviews](#) [150 References](#) [6 Images](#)

### Overview

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<b>Product name</b>	Anti-6X His tag® antibody
<b>Description</b>	Rabbit polyclonal to 6X His tag®
<b>Host species</b>	Rabbit
<b>Specificity</b>	ELISA: Antibody specificity was verified by ELISA against peptide conjugated to BSA (HHHHHH-BSA). A 1:25,000 dilution of the antibody gave an OD=1.0 in a 15 minute reaction using HRP-conjugated Goat anti-Rabbit IgG at 1:20,000 and TMB as the substrate. Appropriate specificity controls were run.
<b>Tested applications</b>	<b>Suitable for:</b> WB, ICC/IF, ELISA, ChIP
<b>Species reactivity</b>	<b>Reacts with:</b> Species independent
<b>Immunogen</b>	Synthetic peptide corresponding to 6X His tag® conjugated to keyhole limpet haemocyanin. <a href="#">Run BLAST with Expasy</a> <a href="#">Run BLAST with NCBI</a>
<b>Positive control</b>	ICC/IF: CHO cells transfected with 12 tags constructs (CHO-12 tags) and HEK293 expressing His tag. WB: HeLa transfected with His-tagged gene, Epitope Tag Positive Control whole cell lysates, purified 12-Tag and cell lysates of CHO-12 Tags.
<b>General notes</b>	<p>This antibody recognizes both C-terminal and N-terminal tags.</p> <p>Abcam recommended secondaries - Goat Anti-Rabbit HRP (<a href="#">ab205718</a>) and Goat Anti-Rabbit Alexa Fluor® 488 (<a href="#">ab150077</a>).</p> <p>See other <a href="#">anti-rabbit secondary antibodies</a> that can be used with this antibody.</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&amp;As</p>

### Properties

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**Form** Liquid

<b>Storage instructions</b>	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.
<b>Storage buffer</b>	pH: 7.20 Preservative: 0.1% Sodium azide Constituent: PBS
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

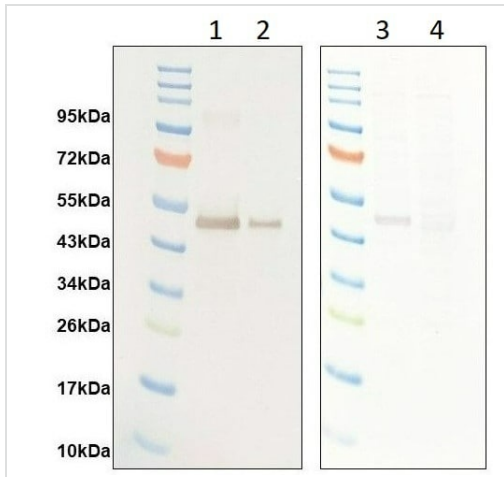
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab9108 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★☆ (14)	Use a concentration of 1 µg/ml.
ICC/IF	★★★★★ (2)	1/500 - 1/1000.
ELISA	★★★★★ (2)	1/1000.
ChIP		Use at an assay dependent concentration. ChIP was performed with 25 ug chromatin, 5ug of antibody and 20 ul of Protein A/G beads.

## Target

<b>Relevance</b>	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.
<b>Cellular localization</b>	Depends upon the localization of the parent protein tagged with hexahistidine.

## Images



Western blot - Anti-6X His tag® antibody (ab9108)

**All lanes :** Anti-6X His tag® antibody (ab9108) at 1 µg/ml

**Lane 1 :** Purified 12-Tag at 2 µg

**Lane 2 :** Purified 12-Tag at 0.2 µg

**Lane 3 :** The cell lysates of CHO-12 Tags at 2 µg

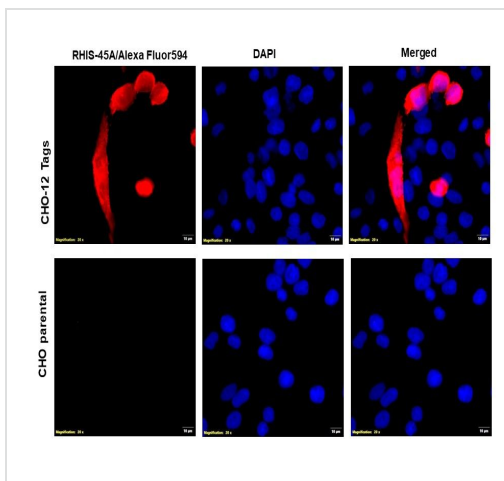
**Lane 4 :** The cell lysates of CHO at 2 µg

### Secondary

**All lanes :** Goat anti-rabbit, HRP conjugated at 0.2 µg/ml

Lane 1 and 4: Molecular weight Standards.

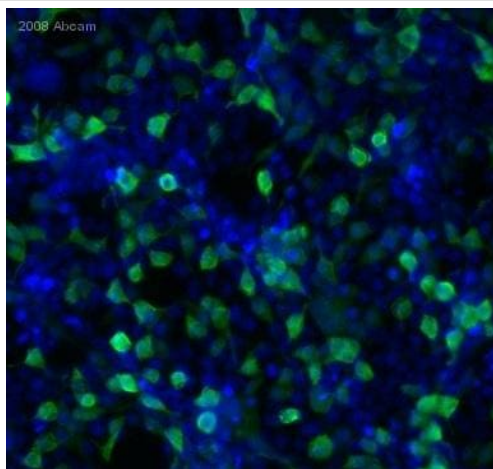
Primary and secondary antibody incubation at RT for 1 hour.



Immunocytochemistry/ Immunofluorescence - Anti-6X His tag® antibody (ab9108)

Immunofluorescent analysis of 4% paraformaldehyde (PFA) -fixed, permeabilized with 0.1% Triton X-100 in CHO cells transfected with 12 tags constructs (CHO-12 tags) labelling 6xHIS with ab9108 at 1/1000 dilution (1µg/mL), followed by Donkey Anti-rabbit IgG (H&L), Alexa Fluor® 594 antibody at 1/500 dilution (4 µg/mL) (Red).

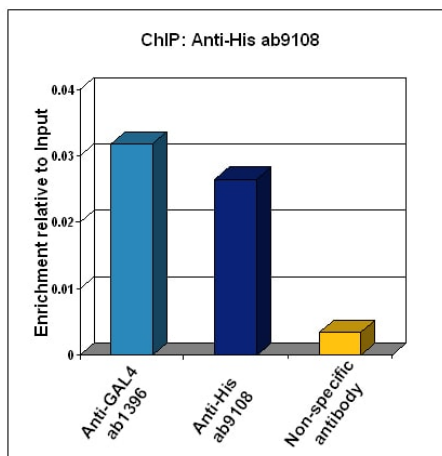
Nucleus was counterstained with DAPI (Blue). Bottom panel images showed Parallel staining in parental CHO cell line.



Immunocytochemistry/ Immunofluorescence - Anti-6X His tag® antibody (ab9108)

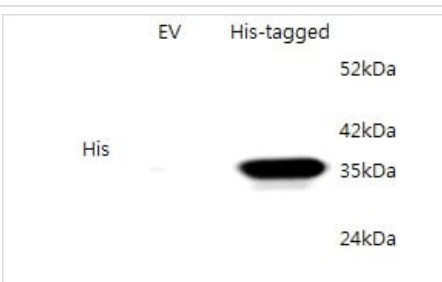
This image is courtesy of Madimir Milenkovic

ab9108 staining CACNB3 with His tag expressed in HEK293 cells by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with paraformaldehyde, permeabilized with 0.5% Triton X-100 and blocked with 5% serum for 20 minutes at 25°C. Samples were incubated with primary antibody (1/500 in 1% goat serum, 0.1% TX100 and PBS) for 16 hours at 4°C. An Alexa Fluor® 488-conjugated Goat anti-rabbit IgG polyclonal was used as the secondary antibody (1/750).



ChIP - Anti-6X His tag® antibody (ab9108)

A stably transfected 293T human cell line harbouring the GAL4 upstream activation sequence was transiently transfected with a Myc or His - tagged GAL4 DNA Binding Domain construct. 48 hours post transfection Chromatin was prepared according to the Abcam X-ChIP protocol. The ChIP was performed with 25 ug chromatin, 5ug of antibody and 20 ul of Protein A/G beads. A non-specific antibody was used as the negative control. The immunoprecipitated DNA was quantified by real time PCR (SYBR Green approach).



Western blot - Anti-6X His tag® antibody (ab9108)

This image is courtesy of an anonymous Abreview

**All lanes** : Anti-6X His tag® antibody (ab9108) at 1/4000 dilution

**Lane 1** : HeLa whole cell lysate - transfected with empty vector

**Lane 2** : HeLa whole cell lysate - transfected with His-tagged gene

Lysates/proteins at 10 µg per lane.

### Secondary

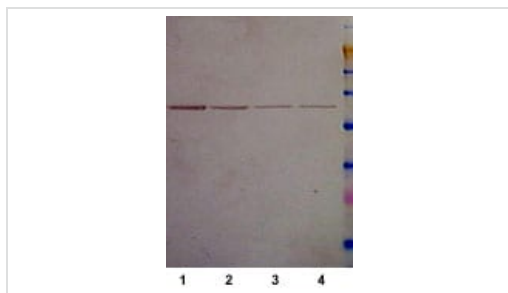
**All lanes** : HRP-conjugated goat anti-rabbit IgG polyclonal at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

**Observed band size:** 35 kDa

**Exposure time:** 30 seconds



Western blot - Anti-6X His tag® antibody (ab9108)

Use of ab9108 in western blotting at 1:1000 against Epitope Tag Positive Control lysate ([ab4524](#)).

Lane 1: 2 µl lysate

Lane 2: 1 µl lysate

Lane 3: 0.5 µl lysate

Lane 4: 0.25 µl lysate Use of ab9108 in western blotting at 1:1000

against E.coli Positive Control (Escherichia coli ) Whole Cell Lysate

- expressing 11 different epitope tag ([ab5395](#)). Lane 1: 2 µl lysate

Lane 2: 1 µl lysate Lane 3: 0.5 µl lysate Lane 4: 0.25 µl lysate

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