abcam

Product datasheet

Anti-HA tag antibody - ChIP Grade ab9110

58 Abreviews 1070 References 9 Images

Overview

Product name	Anti-HA tag antibody - ChIP Grade
Description	Rabbit polyclonal to HA tag - ChIP Grade
Host species	Rabbit
Specificity	ELISA: The anti HA diluted 1:70.000 gave an O.D.=1.0 in a 15 minute reaction against peptide conjugated with a different carrier than used for anti peptide purification. HRP conjugated Goat anti rabbit IgG was used and TMB was the substrate.
Tested applications	**Suitable for:** ChIP/Chip, IP, ELISA, WB, ICC/IF, Flow Cyt, ChIP
Species reactivity	**Reacts with:** Species independent
Immunogen	Synthetic peptide corresponding to Influenza A HA tag conjugated to keyhole limpet haemocyanin. Influenza hemagglutinin-HA-epitope Run BLAST with ExPASy Run BLAST with NCBI
Positive control	WB: 293FT cells transfected with 15kDa HA tagged Vpr (an HIV1 accessory protein). IP: Nuclear lysate of HEK-293T cells transiently expressing HA-tagged protein. ICC/IF: U-2 cells. Mouse olineu cells. ChIP: Xenopus laevis oocytes were injected with mRNA for HA-tagged human BORIS.
General notes	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. 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

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	Preservative: 0.1% Sodium azide Constituent: PBS
Purity	Immunogen affinity purified

Purification notes	Antibodies were immunoaffinity purified using the peptide conjugated to a solid-phase support.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab9110 in the following tested applications.

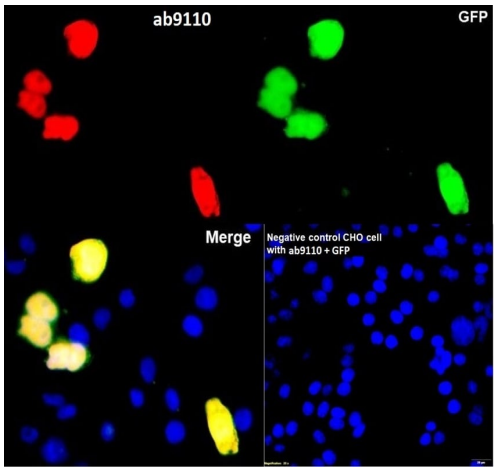
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ChIP/Chip	★★★★★ (1)	Use at an assay dependent concentration.
IP	★★★★★ (12)	Use at an assay dependent concentration.
ELISA		1/200 - 1/500.
WB	★★★★★ (30)	1/4000 - 1/10000.
ICC/IF	★★★★★ (8)	Use a concentration of 1 - 4 µg/ml.
Flow Cyt	★★★★☆ (1)	Use at an assay dependent concentration. **ab171870** - Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.
ChIP	★★★★☆ (2)	Use 3 µg for 25 µg of chromatin.

Target

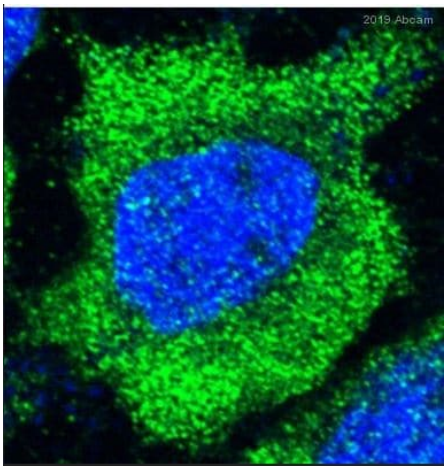
Relevance Human influenza hemagglutinin (HA) is a surface glycoprotein required for the infectivity of the human virus. The HA tag is derived from the HA molecule corresponding to amino acids 98-106 has been extensively used as a general epitope tag in expression vectors. Many recombinant proteins have been engineered to express the HA tag, which does not appear to interfere with the bioactivity or the biodistribution of the recombinant protein. This tag facilitates the detection, isolation, and purification of the proteins.

Images



Immunocytochemistry/ Immunofluorescence - Anti-HA tag antibody - ChIP Grade (ab9110)

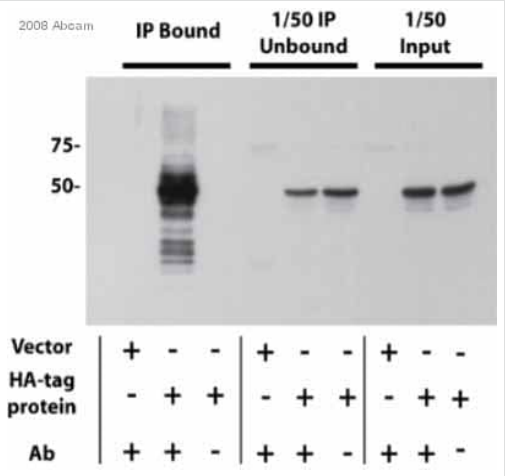
Immunofluorescent analysis of 4% paraformaldehyde (PFA) fixed, permeablised with 0.1% Triton X-100 CHO cells transfected with GFP-HA constructs (CHO-GFP-HA) labelling HA tag with ab9110 at 5µg/ml, followed by Donkey Anti-Rabbit IgG(H&L), Alexa 594 conjugated antibody at 2.5µg/ml (Red). Nucleus was counterstained with DAPI (Blue). Parallel staining in parental CHO cell line as negative control.



Immunocytochemistry/ Immunofluorescence - Anti-HA tag antibody - ChIP Grade (ab9110)

This image is courtesy of an Abreview

ab9110 staining HA-tagged proteins in HeLa cells by ICC/IF (Immunocytochemistry/immunoflurescence). Cells were fixed with paraformaldehyde, permeabilized with 0.1% saponin and blocked with 3% serum for 30 minutes at 37°C. Samples were incubated with primary antibody (2 µg/ml) in 1x PBS for 1 hour at 37°C. An Alexa Fluor® 488-conjugated Goat polyclonal to rabbit was used as secondary antibody.

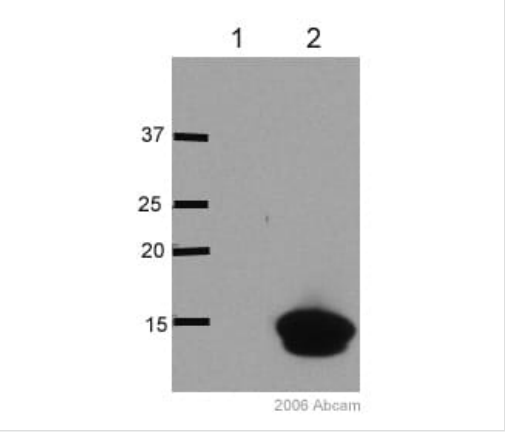


Immunoprecipitation - Anti-HA tag antibody - ChIP Grade (ab9110)

This image is courtesy of an anonymous Abreview

ab9110 was diluted to 4 µg/mg lysate and incubated with a nuclear lysate of HEK293T cells transiently expressing HA-tagged protein and a Protein A matrix for 2 hours a 23°C to achieve immunoprecipitation. 1000 µg of lysate was present in the input.

A HRP-conjugated anti-rabbit HA monoclonal antibody diluted 1/1000 was used for the Western Blot step.



Western blot - Anti-HA tag antibody - ChIP Grade (ab9110)

All lanes : Anti-HA tag antibody - ChIP Grade (ab9110) at 1/4000 dilution

Lane 1 : 15ug untransfected wcl lysate
Lane 2 : 293FT cells transfected with 15kDa HA tagged Vpr (an HIV1 accessory protein)

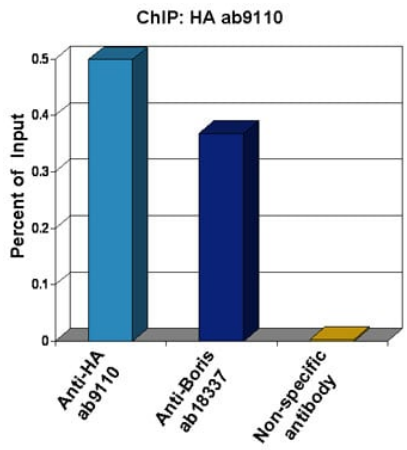
Secondary
All lanes : HRP conjugated Goat anti-Rabbit

Developed using the ECL technique.

Performed under reducing conditions.

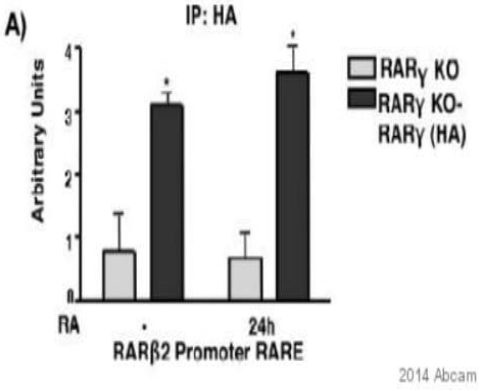
Exposure time: 5 seconds

This image is courtesy of an Abreview



ChIP - Anti-HA tag antibody - ChIP Grade (ab9110)

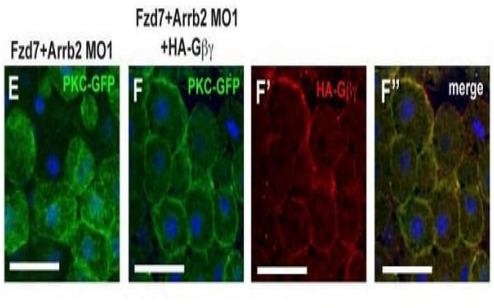
Xenopus laevis oocytes were injected with mRNA for HA-tagged human BORIS. Chromatin was prepared according to the Abcam X-ChIP protocol. Oocytes were fixed with formaldehyde for 10min. The ChIP was performed with 25µg of chromatin, 20µl of Protein A/G sepharose beads, and 3µg of ab9110 (anti-HA, light blue) or, 3µg of **ab18337** (anti-Boris, dark blue). A non-specific antibody was used as a control (yellow). The immunoprecipitated DNA was quantified by real time PCR (Taqman approach).



ChIP - Anti-HA tag antibody - ChIP Grade (ab9110)

This image is courtesy of an Abreview submitted by Mr. Dan Stummer

Chromatin was prepared according to the X-ChIP protocol. Mouse embryonic stem whole cell lysate treated with disuccinimidyl glutarate (cross-linking agent). ChIP was performed using ab9110 at 1/200 dilution for 16 hours at 4°C in RIPA diluent. The bound DNA was quantitated by real-time PCR. Negative control: The parent cell line. Positive control: A cell line, which stably express an HA-tagged RARgamma protein.



Immunocytochemistry/ Immunofluorescence - Anti-HA tag antibody - ChIP Grade (ab9110)

Seitz, K. et al Send to PLoS One. 2014 Jan 29;9(1):e87132. doi: 10.1371/journal.pone.0087132. eCollection 2014 Reproduced under the Creative Commons license http://creativecommons.org/licenses/by/4.0/

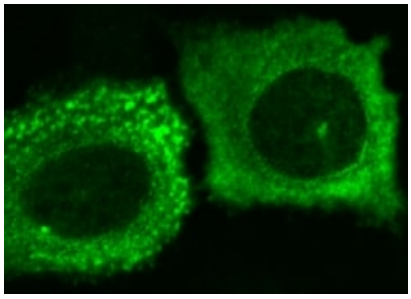
Arrb2 depends on Gβγ to induce membrane translocation of PKCα

Xenopus embryos were injected with 500 pg pkcα-gfp RNA and co-injected as indicated above the images. Animal Caps were prepared at stage 10 and immunostained as indicated. Nuclei were stained with Hoechst 33258 (blue). Images show representative results from at least two independent experiments with a minimum of six Animal Caps per experiment. Scale bars: 50 µm.

The inhibitory effect of Arrb2 MO1 (E) on PKCα-GFP membrane translocation was rescued by (F) co-injection of HA-Gβ and HA-Gγ mRNA (anti-HA (red): F′, merge: F").

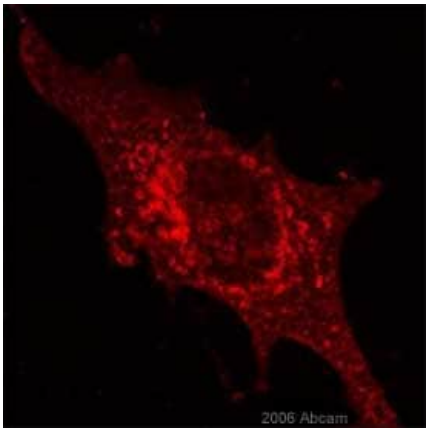
HA was detected with ab9110.

(After Figure 2 of Seitz et al)



Immunocytochemistry/ Immunofluorescence - Anti-HA tag antibody - ChIP Grade (ab9110)

This image was kindly supplied as part of the review submitted by Kasper Fugger. Immunofluorescence staining of U-2 cells expressing HA-tagged protein with ab9110.



Immunocytochemistry/ Immunofluorescence - Anti-HA tag antibody - ChIP Grade (ab9110)

ab 9110 at a 1/200 dilution staining the mouse olineu cell line (oligodendrocyte precursor cell) by immunocytochemistry. The antibody was incubated with the cells for 30 minutes and then detected using a Cy5 conjugated goat anti-rabbit antibody.

This image is courtesy of an Abreview submitted by **Katarina Trajkovic** on **15 March 2006**

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors