

Product datasheet

Anti-HA tag antibody [12CA5] ab1424

★★★★★ 12 Abreviews 45 References 4 Images

Overview

Product name	Anti-HA tag antibody [12CA5]
Description	Mouse monoclonal [12CA5] to HA tag
Host species	Mouse
Specificity	The antibody detects HA-tag fused to the C-terminus or N-terminus of targeted proteins in transfected cells. The antibody works in ChIP but less well than ab9110 (see ChIP data).
Tested applications	Suitable for: ICC/IF, ChIP, IP, WB
Species reactivity	Reacts with: Species independent
Immunogen	Synthetic peptide. Derived from the human influenza hemagglutinin protein Database link: ADG21028 Run BLAST with Run BLAST with
Positive control	WB: Rab6-HA transfected HEK-293T whole cell lysate. IP: Rab6-HA transfected HEK-293T whole cell lysate. ICC/IF: Baby hamster kidney cell expressing HA-tag CFTR protein. ChIP: Xenopus laevis oocytes injected with mRNA for HA-tagged human BORIS.
General notes	This product is manufactured by BioVision, an Abcam company and was previously called 3996 HA-Tag Antibody (Clone 12CA5[2]). 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: 0.03% Proclin 300 Constituents: 30% Glycerol (glycerin, glycerine), 0.05% BSA, PBS, 0.019% Ethylenediaminetetraacetic acid, disodium, dihydrate

Clonality	Monoclonal
Clone number	12CA5
Isotype	IgG1
Light chain type	kappa

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab1424 in the following tested applications.

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

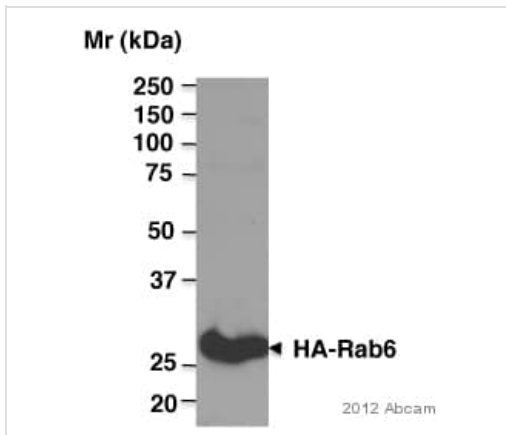
Application	Abreviews	Notes
ICC/IF	★★★★★ (1)	Use a concentration of 10 µg/ml.
ChIP		Use a concentration of 3 µg/ml. Use 3 µg per 25 µg chromatin (see figure legend).
IP	★★★★★ (5)	Use a concentration of 10 µg/ml.
WB	★★★★★ (6)	Use a concentration of 1 µg/ml.

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



Western blot - Anti-HA tag antibody [12CA5] (ab1424)

This image is courtesy of an anonymous Abreview

Anti-HA tag antibody [12CA5] (ab1424) at 1/1000 dilution + HEK293T whole cell lysate over-expressing HA-tagged Rab6 at 20 μ g

Secondary

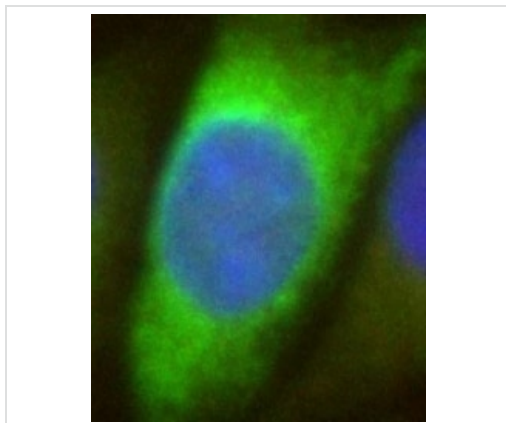
HRP-conjugated goat anti-mouse polyclonal IgG at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Exposure time: 5 seconds

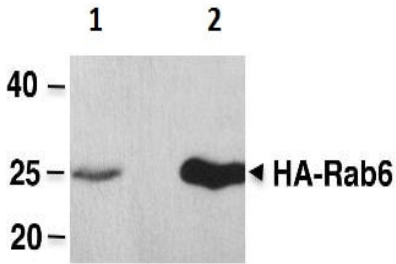
Blocked with 5% milk for 30 min at 25°C



Immunocytochemistry/ Immunofluorescence - Anti-HA tag antibody [12CA5] (ab1424)

This image was kindly supplied as part of the review submitted by one of our customers.

This picture shows baby hamster kidney cell expressing HA-tag CFTR protein. This type of cells were grown on coverslip and immunofluorescence was performed. Dilution of 1:200 was used and incubated for 2hrs with antibody.



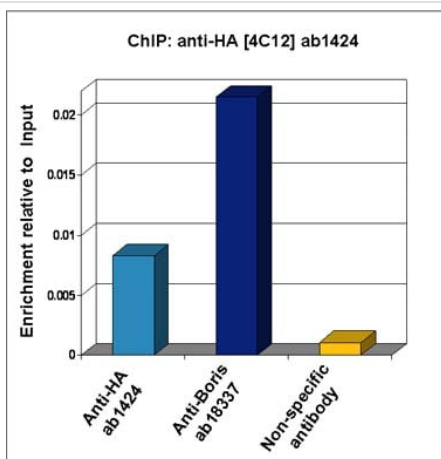
Immunoprecipitation - Anti-HA tag antibody [12CA5]
(ab1424)

Data courtesy of an anonymous AbReview

Recombinant HA-tagged Rab6 was immunoprecipitated from 1 mg transfected HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell extract with 2 μ L ab1424.

Lane 1: Rab6-HA transfected HEK-293T whole cell extract (Input)

Lane 2: ab1424 IP in Rab6-HA transfected HEK-293T whole cell extract.



ChIP - Anti-HA tag antibody [12CA5] (ab1424)

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 25 μ g of chromatin, 3 μ g of ab1424 (anti-HA, light blue) and 3 μ g of ab18337 (anti-BORIS, dark blue), and 20 μ l of Protein A/G sepharose beads. A non-specific antibody was used as a control (yellow). The immunoprecipitated DNA was quantified by real time PCR (Taqman approach).

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