Product datasheet

Anti-HA tag antibody [HA.C5] ab18181

Overview

Product name
Anti-HA tag antibody [HA.C5]

Description
Mouse monoclonal [HA.C5] to HA tag

Host species
Mouse

Tested applications
Suitable for: ChIP/Chip, WB, ICC, IP, ICC/IF

Species reactivity
Reacts with: Species independent

Immunogen
Synthetic peptide from influenza hemagglutinin epitope: YPYDVPDYA conjugated to KLH.

General notes
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.

Abcam recommended secondaries - Goat Anti-Mouse HRP (ab205719) and Goat Anti-Mouse Alexa Fluor® 488 (ab150113).

See other anti-mouse secondary antibodies that can be used with this antibody.

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: 0.05% Sodium Azide
Constituents: PBS, pH 7.4

Purity
Affinity purified

Purification notes
Purified from TCS

Clonality
Monoclonal

Clone number
HA.C5

Isotype
IgG3
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 and 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.

**Applications**

Our **Abpromise guarantee** covers the use of ab18181 in the following tested applications.

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

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<td>Use at an assay dependent concentration. PubMed: 19581286</td>
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<td>WB</td>
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<td>1/1000.</td>
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**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 and 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 [HA.C5] (ab18181)**

All lanes: Anti-HA tag antibody [HA.C5] (ab18181) at 1/1000 dilution

Lanes 1-2: HEK293 whole cell lysate - transfected
Lane 3: HEK293 whole cell lysate - untransfected

Lysates/proteins at 30 µg per lane.

**Secondary**

All lanes: IRDye® 800CW Goat anti-mouse IgG polyclonal at 1/10000 dilution

Performed under reducing conditions.

**Observed band size:** 85 kDa

why is the actual band size different from the predicted?
**Exposure time:** 5 minutes

ab18181 staining HA tag (green) in HeLa cells by Immunocytochemistry/Immunofluorescence.

Cells were fixed with paraformaldehyde, permeabilized with 0.5% Triton X-100 and blocked with 3% BSA for 1 hour at 22°C. Samples were incubated with primary antibody (1/1000 in diluent) for 1 hour at 22°C. A FITC-conjugated goat anti-mouse polyclonal IgG (1/1000) was used as the secondary antibody. Nuclei were stained with DAPI (blue).

Western blot using ab18181 of 293 cells transfected with HA-tagged vector(2) and untransfected control (1). Western blot using ab18181 of 293 cells transfected with HA-tagged vector(2) and untransfected control (1).

Immunofluorescence using ab18181 staining a HA-tag fusion protein (transcription factor) in a stable expressing cell line (right hand panel) and control cell line (left hand panel).
All lanes: Anti-HA tag antibody [HA.C5] (ab18181) at 1/2000 dilution

Lane 1: WCE from cell line transfected for HA-tagged protein
Lane 2: WCE from a cell line transfected with empty vector

Lysates/proteins at 50 µg per lane.

Secondary

All lanes: HRP conjugated Goat anti-mouse IgG (H+L)

Developed using the ECL technique.

Performed under reducing conditions.

Exposure time: 10 seconds

Incubation with the primary antibody was carried out at 4°C overnight, whilst the secondary antibody was incubated for 1 hour at room temperature.

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