abcam

Product datasheet

Anti-Coronin 1a antibody ab56820

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Overview

Product name	Anti-Coronin 1a antibody
Description	Mouse monoclonal to Coronin 1a
Host species	Mouse
Tested applications	**Suitable for:** WB, IHC-P, ICC/IF
Species reactivity	**Reacts with:** Mouse, Human
Immunogen	Recombinant fragment, corresponding to amino acids 360-462 of Human Coronin 1a
General notes	Abcam is committed to meeting high standards of ethical manufacturing and has decided to discontinue this product by June 2019 as it has been generated by the ascites method. We are sorry for any inconvenience this may cause. We would recommend antibody **ab123574** as a replacement.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: None PBS, pH 7.2
Purity	Protein G purified
Clonality	Monoclonal
Isotype	IgG2a
Light chain type	kappa

Applications

The Abpromise guarantee	Our **Abpromise guarantee** covers the use of ab56820 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	★★★★★ (1)	Use a concentration of 1 - 5 µg/ml. Predicted molecular weight: 51 kDa.
IHC-P	★★★★★ (1)	Use a concentration of 3 µg/ml.
ICC/IF		Use at an assay dependent concentration. PubMed: 21169636

Target

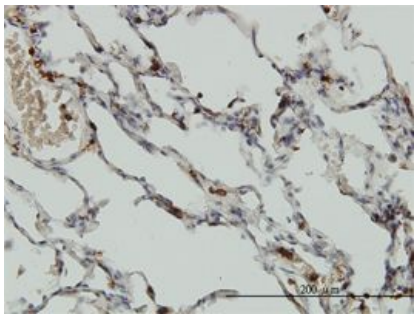
Function
May be a crucial component of the cytoskeleton of highly motile cells, functioning both in the invagination of large pieces of plasma membrane, as well as in forming protrusions of the plasma membrane involved in cell locomotion. In mycobacteria-infected cells, its retention on the phagosomal membrane prevents fusion between phagosomes and lysosomes.

Tissue specificity
Expressed in brain, thymus, spleen, bone marrow and lymph node. Low in lung and gut.

Sequence similarities
Belongs to the WD repeat coronin family.
Contains 7 WD repeats.

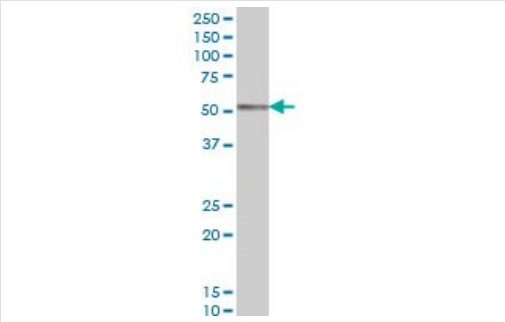
Cellular localization
Cytoplasm > cytoskeleton. Cytoplasm > cell cortex. Cytoplasmic vesicle > phagosome membrane. In non-infected macrophages, associated with the cortical microtubule network. In mycobacteria-infected macrophages, becomes progressively relocalized and retained around the mycobacterial phagosomes. Retention on the phagosomal membrane is strictly dependent on mycobacterial viability and not due to impaired acidification.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Coronin 1a antibody (ab56820)

Coronin 1a antibody (ab56820) used in immunohistochemistry at 3ug/ml on formalin fixed and paraffin embedded human lung.



Western blot - Anti-Coronin 1a antibody (ab56820)

Coronin 1a antibody (ab56820) at 1ug/lane + K-562 cell lysate at 25ug/lane.

Western blot - Anti-Coronin 1a antibody (ab56820)

Image courtesy of an anonymous Abreview.

All lanes : Anti-Coronin 1a antibody (ab56820) at 1/500 dilution

All lanes : Mouse macrophage whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : HRP-conjugated Goat anti-Mouse

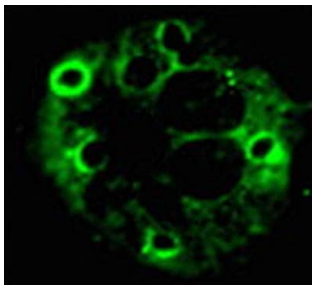
Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 51 kDa

Observed band size: 51 kDa

Exposure time: 20 seconds



Immunocytochemistry/ Immunofluorescence - Anti-Coronin 1a antibody (ab56820)

Image from Yokoyama K et al, J Biol Chem. 2011 Feb 18;286(7):5375-82. Epub 2010 Dec 18, Fig 5. DOI 10.1074/jbc.M110.171702

ab56820 staining Coronin 1a in HL-60 cells by Immunocytochemistry/ Immunofluorescence.
The cells were washed three times with PBS after the phagocytosis assay and fixed with 3.3% paraformaldehyde for 15 minutes. Cells were washed twice with PBS containing 1 mm $MgCl_2$ and 0.1% BSA (staining buffer), permeabilized with 0.2% Triton X-100 in staining buffer for 3 minutes, and blocked with PBS containing 1 mm $MgCl_2$ and 5% BSA for 30 minutes. To assess the distribution of Coronin 1a, a phagocytosis assay was started as described above, and the cells were treated with C3bi-zymosan for 10 minutes at 37 °C. After washing twice to remove unbound C3bi-zymosan particles, the treated cells were reincubated for the indicated times at 37 °C and then fixed and permeabilized. Cells were incubated with ab56820 for 1 hour and then with an Alexa Fluor 488-conjugated phalloidin. For more details please see journal article.

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