abcam

Product datasheet

Anti-Ibal antibody [EPR16589] - Mouse IgG1 (Chimeric) ab283319



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Overview

Product name Anti-lba1 antibody [EPR16589] - Mouse IgG1 (Chimeric) **Description** Mouse monoclonal [EPR16589] to lba1 - Mouse IgG1

Host species Mouse

Tested applications Suitable for: WB, IP, Flow Cyt (Intra), IHC-P, ICC/IF

Species reactivity Reacts with: Mouse, Rat, Human

Immunogen Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.

Positive control WB: THP-1 whole cell lysate. IHC-P: Human cerebrum, Human endometrium and Mouse

cerebrum, Rat cerebrum tissues. ICC: THP-1 cells. Flow Cyt: THP-1 cell. IP: THP-1 cell.

General notes This mouse monoclonal chimeric antibody has been engineered from a RabMAb parent antibody

> (ab178847). By necessity, some rabbit sequence is retained as part of the variable domain. When multiplexing with other rabbit-derived antibodies, using cross absorbed Fc-reactive

secondary antibodies are recommended.

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility

- Improved sensitivity and specificity

- Long-term security of supply

- Animal-free production

For more information see here.

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.

Avoid freeze / thaw cycle.

Storage buffer pH: 7.2

Preservative: 0.01% Sodium azide

Constituents: 59% PBS, 0.05% BSA, 40% Glycerol (glycerin, glycerine)

Purity Protein A purified

ClonalityMonoclonalClone numberEPR16589

lsotype lgG1

Applications

The Abpromise guarantee Our Abpromise guarantee covers the use of ab283319 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		1/1000. Predicted molecular weight: 16 kDa.
IP		1/30.
Flow Cyt (Intra)		1/10000.
IHC-P		1/10000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF	★★★★ <u>(1)</u>	1/100.

Target

Function Actin-binding protein that enhances membrane ruffling and RAC activation. Enhances the actin-

bundling activity of LCP1. Binds calcium. Plays a role in RAC signaling and in phagocytosis. May play a role in macrophage activation and function. Promotes the proliferation of vascular smooth muscle cells and of T-lymphocytes. Enhances lymphocyte migration. Plays a role in vascular

inflammation.

Tissue specificity Detected in T-lymphocytes and peripheral blood mononuclear cells.

Sequence similarities Contains 2 EF-hand domains.

Post-translational

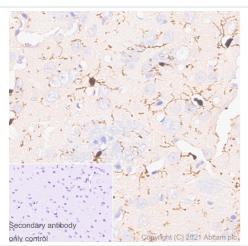
modifications

Phosphorylated on serine residues.

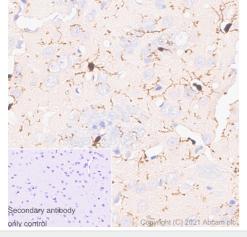
Cellular localization Cytoplasm > cytoskeleton. Cell projection > ruffle membrane. Associated with the actin

cytoskeleton at membrane ruffles and at sites of phagocytosis.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-lba1 antibody [EPR16589] - Mouse IgG1 (Chimeric) (ab283319)



All lanes: Anti-lba1 antibody [EPR16589] - Mouse lgG1

use LeicaDS9800 (Bond™ Polymer Refine Detection).



Lane 1: THP-1 (human monocytic leukemia monocyte), whole cell lysate

Immunohistochemical analysis of paraffin-embedded Rat cerebrum

dilution followed by a ready to use LeicaDS9800 (Bond™ Polymer

cerebrum. The section was incubated with ab283319 for 10 mins at room temperature and followed by mouse specific IgG antibody (ab125913) for 8 mins. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with

Secondary antibody only control: Secondary antibody is a ready to

Heat mediated antigen retrieval with Citrate buffer (pH 6.0, epitope

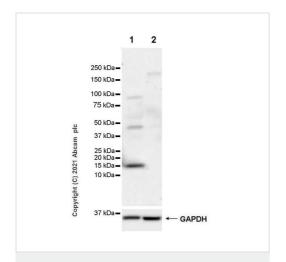
tissue labeling lba1 with ab283319 at 1/10000 (0.114 ug/ml)

Refine Detection). Positive staining on the microglia in rat

Lane 2: MCF7 (human breast adenocarcinoma epithelial cell), whole cell lysate

Lysates/proteins at 20 µg per lane.

retrieval solution 1) for 20 mins



Western blot - Anti-Iba1 antibody [EPR16589] -Mouse IgG1 (Chimeric) (ab283319)

Secondary

Hematoxylin.

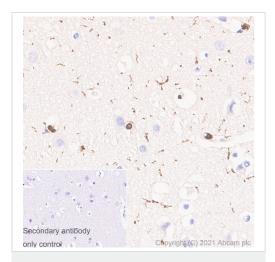
All lanes: Peroxidase-Conjugated Goat anti-Mouse IgG (H+L) at 1/5000 dilution

Predicted band size: 16 kDa Observed band size: 16 kDa

Blocking and diluting buffer: 5% NFDM/TBST

Negative control: MCF7 (HPA database)

Exposure time: 136 seconds



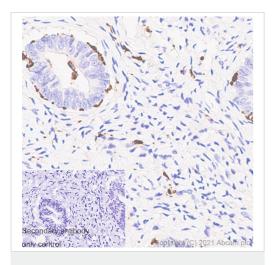
Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-Iba1 antibody

[EPR16589] - Mouse IgG1 (Chimeric) (ab283319)

Immunohistochemical analysis of paraffin-embedded Human cerebrum tissue labeling lba1 with ab283319 at 1/10000 (0.114 ug/ml) dilution followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Positive staining on the microglia in human cerebrum. The section was incubated with ab283319 for 10 mins at room temperature and followed by mouse specific lgG antibody (ab125913) for 8 mins. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval with Citrate buffer (pH 6.0, epitope retrieval solution 1) for 20 mins



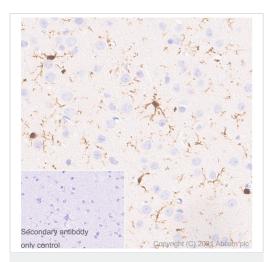
Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-Iba1 antibody

[EPR16589] - Mouse IgG1 (Chimeric) (ab283319)

Immunohistochemical analysis of paraffin-embedded Human endometrium tissue labeling lba1 with ab283319 at 1/10000 (0.114 ug/ml) dilution followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Positive staining on the immune cells in human endometrium. The section was incubated with ab283319 for 10 mins at room temperature and followed by mouse specific lgG antibody (ab125913) for 8 mins. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval with Citrate buffer (pH 6.0, epitope retrieval solution 1) for 20 mins



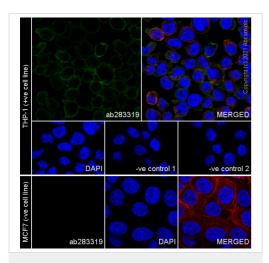
Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-Iba1 antibody

[EPR16589] - Mouse IgG1 (Chimeric) (ab283319)

Immunohistochemical analysis of paraffin-embedded Mouse cerebrum tissue labeling lba1 with ab283319 at 1/10000 (0.114 ug/ml) dilution followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Positive staining on the microglia in mouse cerebrum. The section was incubated with ab283319 for 10 mins at room temperature and followed by mouse specific lgG antibody (ab125913) for 8 mins. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval with Citrate buffer (pH 6.0, epitope retrieval solution 1) for 20 mins

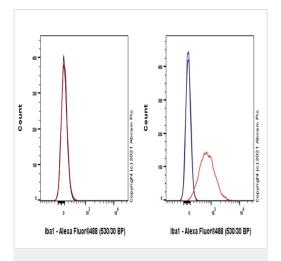


Immunocytochemistry/ Immunofluorescence - Anti-Iba1 antibody [EPR16589] - Mouse IgG1 (Chimeric) (ab283319)

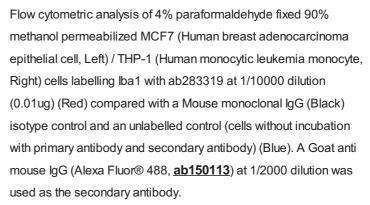
Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized THP-1 cells labelling lba1 with ab283319 at 1/100 (11.36 ug/ml) dilution, followed by **ab150113** Goat Anti-Mouse lgG H&L (Alexa Fluor® 488) antibody at 1/1000 dilution (Green). **ab179513** Anti-beta Tubulin rabbit monoclonal antibody was used to counterstain tubulin at 1/200 dilution (Red). The Nuclear counterstain was DAPI (Blue). Confocal image showing cytoplasmic staining in THP-1 cells.

Negative control: MCF7

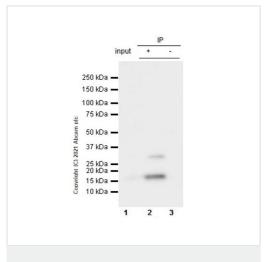
Secondary antibody only control: Secondary antibody is <u>ab150113</u> Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) at 1/1000 dilution.



Flow Cytometry (Intracellular) - Anti-Iba1 antibody [EPR16589] - Mouse IgG1 (Chimeric) (ab283319)



Negative control: MCF7.



Immunoprecipitation - Anti-Iba1 antibody

[EPR16589] - Mouse IgG1 (Chimeric) (ab283319)

Iba1 was immunoprecipitated from 0.35 mg THP-1 (human monocytic leukemia monocyte), whole cell lysate 10 ug with ab283319 at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab283319 at 1/1000 dilution. mouse IgG for IP (HRP) (ab131368) was used at 1/10000 dilution.

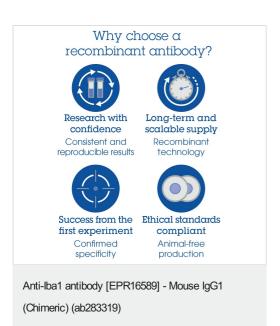
Lane 1: THP-1 (human monocytic leukemia monocyte), whole cell lysate 10 ug

Lane 2: ab283319 IP in THP-1 whole cell lysate

Lane 3: Mouse monoclonal IgG (<u>ab18443</u>) instead of ab283319 in THP-1 whole cell lysate

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 32 seconds



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