abcam

Product datasheet

Anti-Iba1 antibody ab108539

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Overview

Product name	Anti-Iba1 antibody
Description	Rabbit polyclonal to Iba1
Host species	Rabbit
Specificity	In WB, we recommend blocking in milk. Blocking with BSA gives high background. If looking for a monoclonal anti-Iba1 alternative we can recommend our RabMAb **ab178846**
Tested applications	**Suitable for:** WB, IHC-P
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide corresponding to Human Iba1 (C terminal). Database link: **P55008**
Positive control	Iba1 (Human) full length recombinant protein; Rat brain lysate; Human fetal lymphocytes; spleen tissue lysate; THP1, C6, NR8383 whole cell lysate
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	Lyophilized:Reconstitute with 200ul distilled sterile water. Please note that if you receive this product in liquid form it has already been reconstituted as described and no further reconstitution is necessary.
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.20 Preservative: 0.02% Sodium azide Constituents: PBS, 1% BSA
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab108539 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		1/500 - 1/1000. Predicted molecular weight: 17 kDa. We recommend blocking in 3-5% milk. Blocking with BSA gives high background.
IHC-P	★★☆☆☆ (3)	1/100 - 1/500.

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.

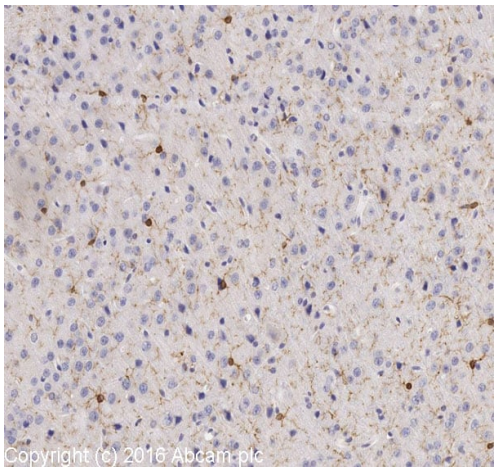
Tissue specificity Detected in T-lymphocytes and peripheral blood mononuclear cells.

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.

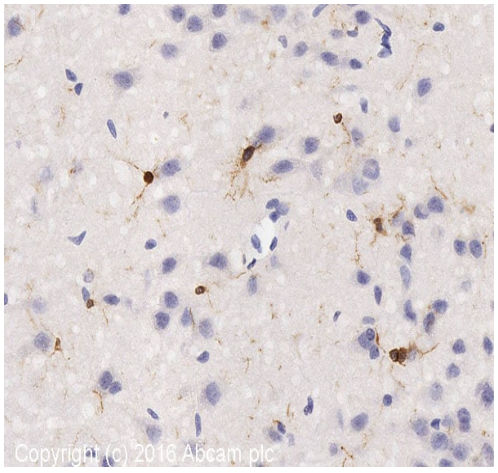
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Iba1 antibody (ab108539)

IHC image of Iba1 staining in normal mouse brain formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol B. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab108539, 1/1000 dilution, for 15 mins at room temperature and detected using an HRP conjugated ABC system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

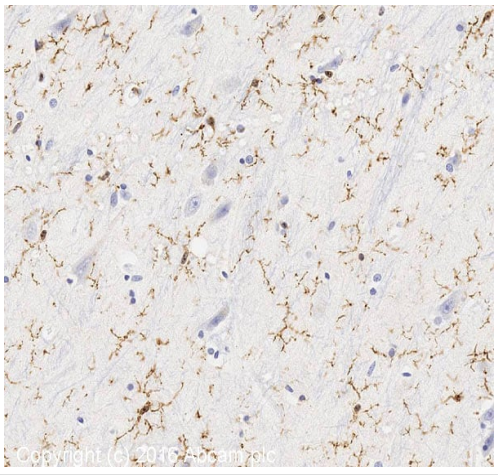
For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Iba1 antibody (ab108539)

IHC image of Iba1 staining in normal rat brain formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab108539, 1/500 dilution, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

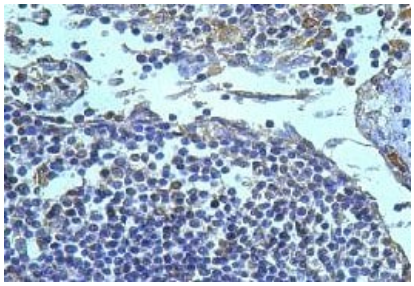
For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Iba1 antibody (ab108539)

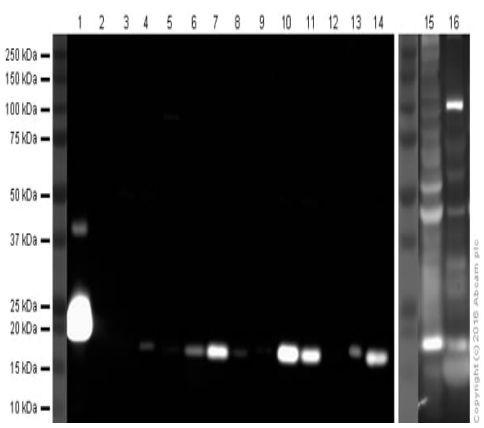
IHC image of Iba1 staining in normal human hippocampus formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab108539, 1/1000 dilution, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Iba1 antibody (ab108539)

ab108539, at 1/100 dilution, staining Iba1 in formalin-fixed, paraffin-embedded Human fetal lymphocytes by Immunohistochemistry.



Western blot - Anti-Iba1 antibody (ab108539)

All lanes : Anti-Iba1 antibody (ab108539) at 1/1000 dilution

Lane 1 : Human Iba1 recombinant protein at 0.1 µg
Lane 2 : HEK293 whole cell lysate at 20 µg
Lane 3 : A431 whole cell lysate at 20 µg
Lane 4 : NIH3T3 whole cell lysate at 30 µg
Lane 5 : Human spleen tissue lysate at 20 µg
Lane 6 : Mouse spleen tissue lysate at 30 µg
Lane 7 : Rat spleen tissue lysate at 30 µg
Lane 8 : U937 whole cell lysate at 30 µg
Lane 9 : MOLT4 whole cell lysate at 20 µg
Lane 10 : THP1 whole cell lysate at 30 µg
Lane 11 : THP1 whole cell lysate, PMA treated at 30 µg
Lane 12 : Raw 264.7 whole cell lysate at 30 µg
Lane 13 : C6 whole cell lysate at 30 µg
Lane 14 : NR8383 whole cell lysate at 30 µg
Lane 15 : NIH3T3 whole cell lysate - BLOCKED IN 5% BSA at 30 µg
Lane 16 : Human spleen tissue lysate - BLOCKED IN 5% BSA at 20 µg

Developed using the ECL technique.

Performed under reducing conditions.

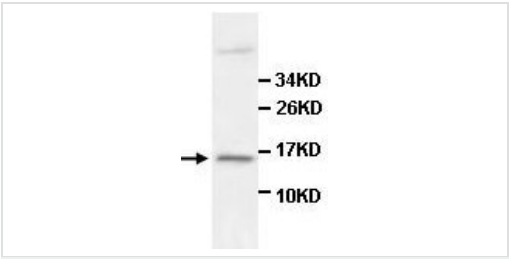
Predicted band size: 17 kDa

Exposure time: 3 minutes

Lanes 1-14: Blocked in 3% milk for 1 hour (RT). Lanes 15-16: Blocked in 5% BSA for 1 hour (RT).

Abcam recommends blocking in milk for cleaner blots with reduced background, in comparison to BSA.

This blot was produced using a 4-12% Bis-Tris gel under the MOPS buffer system. The gel was run at 200V for 60 minutes before being transferred onto a nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour before being incubated with ab108539 (anti-Iba1 antibody; 1/1000) for 18 hours at 4°C. Antibody binding was detected using HRP-labelled anti-Rabbit IgG for 1 hour at room temperature and visualised using ECL development solution **ab133406**.



Western blot - Anti-Iba1 antibody (ab108539)

Anti-Iba1 antibody (ab108539) at 1/500 dilution + Rat brain lysate

Predicted band size: 17 kDa

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