

Anti-Iba1 antibody ab5076

★★★★☆ **100 Abreviews** **1145 References** 画像数 4

製品の概要

製品名	Anti-Iba1 antibody
製品の詳細	Goat polyclonal to Iba1
由来種	Goat
特異性	<p>ab5076 is expected to recognize the isoforms represented by NP_001614 and NP_116573 but not NP_004838.</p> <p>Although we received several excellent papers on ab5076 working with rat IHC-P, rat is not a batch tested species for IHC-P and we cannot guarantee.</p>

アプリケーション

適用あり: IHC-P, WB

種交差性

交差種: Rat, Human

交差が予測される動物種: Pig, Macaque monkey 

免疫原

Synthetic peptide corresponding to Human Iba1 aa 135-147 (C terminal). Accession Number(s): NP_116573.1; NP_001614.3
Sequence:
C-TGPPAKKAISELP

Database link: **P55008**
(Peptide available as **ab23067**)

 **Run BLAST with**

 **Run BLAST with**

ポジティブ・コントロール

WB: Human lymph node and rat brain tissue lysate. IHC-P: Human spleen tissue.

特記事項

The Iba1 antibody (ab5076) is commonly used as a marker of microglia activation in staining and immunohistochemistry, given that ionized calcium binding adaptor molecule 1 (Iba1) is a microglia/macrophage-specific calcium-binding protein with actin-bundling activity that participates in membrane ruffling and phagocytosis in activated microglia.

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

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
バッファー	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: Tris buffered saline, 0.5% BSA
精製度	Immunogen affinity purified
特記事項 (精製)	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
ポリ/モノ	ポリクローナル
アイソタイプ	IgG

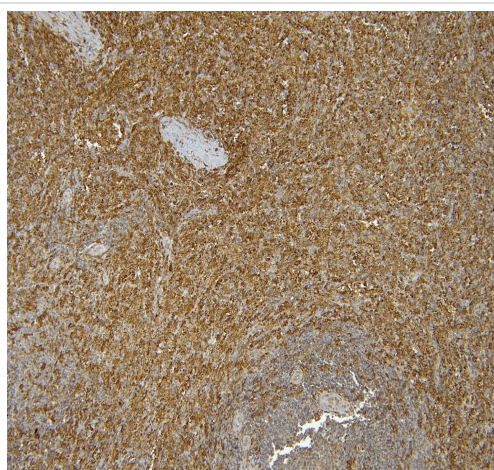
アプリケーション

The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab5076の使用に適用されます**
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
IHC-P	★★★★★ (28)	Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. Although we received several excellent papers on ab5076 working with rat IHC-P, rat is not a batch tested species for IHC-P and we cannot guarantee.
WB	★★★★★ (7)	Use a concentration of 1 - 3 µg/ml. Detects a band of approximately 16-17 kDa (predicted molecular weight: 17 kDa). A 1 hour primary incubation is recommended for this product. We received several excellent Abreviews on this antibody working with mouse, however, mouse is not a batch tested species and we cannot guarantee that this antibody will work on mouse. Some of our customers have observed high background in mouse

ターゲット情報

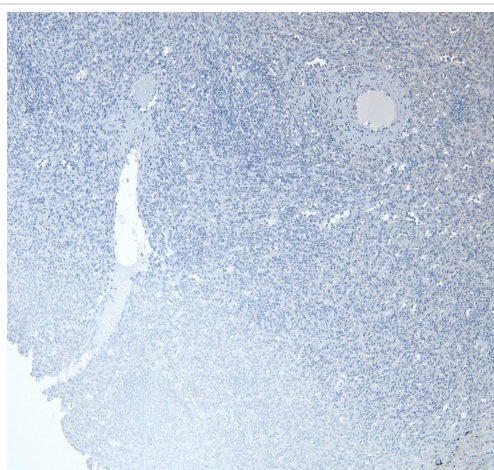
機能	Actin-binding protein that enhances membrane ruffling and RAC activation. Enhances the actin-bundling activity of LCP1. Binds calcium. Plays a role in RAC signaling and in phagocytosis. May play a role in macrophage activation and function. Promotes the proliferation of vascular smooth muscle cells and of T-lymphocytes. Enhances lymphocyte migration. Plays a role in vascular inflammation.
組織特異性	Detected in T-lymphocytes and peripheral blood mononuclear cells.
配列類似性	Contains 2 EF-hand domains.
翻訳後修飾	Phosphorylated on serine residues.
細胞内局在	Cytoplasm > cytoskeleton. Cell projection > ruffle membrane. Associated with the actin cytoskeleton at membrane ruffles and at sites of phagocytosis.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Iba1 antibody (ab5076)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human spleen tissue labelling Iba1 with ab5076 at 8µg/ml.

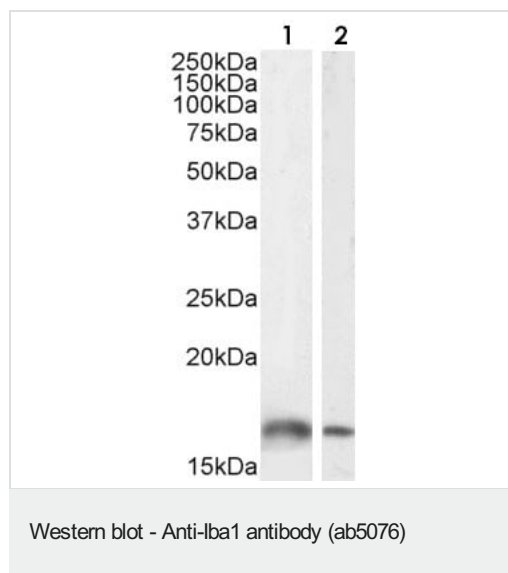
Heat induced antigen retrieval with citrate buffer Ph 6, HRP-staining.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Iba1 antibody (ab5076)

Negative control: Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human spleen tissue labelling Iba1 with no primary antibody.

Heat induced antigen retrieval with citrate buffer Ph 6, HRP-staining.



All lanes : Anti-Iba1 antibody (ab5076) at 1 µg/ml

Lane 1 : Human lymph node tissue lysate in RIPA buffer

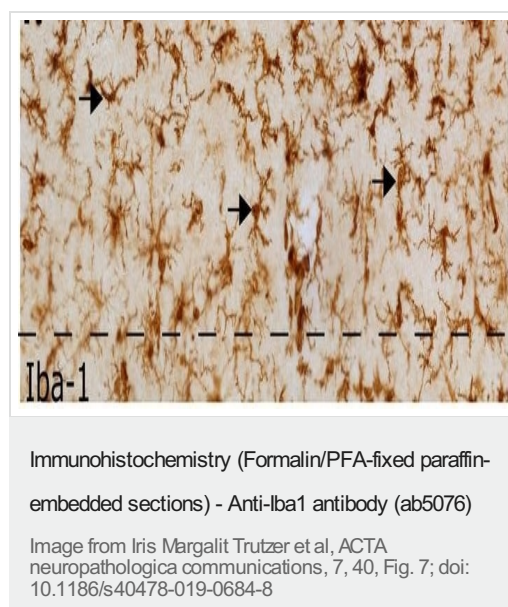
Lane 2 : Rat brain tissue lysate in RIPA buffer

Lysates/proteins at 35 µg per lane.

Developed using the ECL technique.

Predicted band size: 17 kDa

Detected by chemiluminescence.



Immunohistochemical analysis of formalin-fixed, paraffin-embedded human lateral prefrontal cortex tissue labeling Iba1 labeled microglia (labeled with black arrows) within the cortex using ab5076 at 1/1000 dilution. (Cropped image).

Sections were rinsed in 0.01 m PBS, pH 7.4, followed by 10% serum matching the species of the secondary antibody, 5% bovine serum albumin, and 0.1% Triton X-100 in 0.01 m PBS blocking solution for 1 h and incubated for 2 days at 4 °C in primary antibody. The sections were rinsed in PBS and incubated overnight at 4 °C with a horse anti-Goat IgG (Biotinylated) secondary antibody.

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