

## Product datasheet

# Anti-Iba1 antibody ab48004

★★★★☆ 9 Abreviews 2 References 画像数 7

### 製品の概要

<b>製品名</b>	Anti-Iba1 antibody
<b>製品の詳細</b>	Goat polyclonal to Iba1
<b>特異性</b>	This antibody is expected to recognise isoform 3 (NP_001614.3) only. This antibody gave excellent staining in paraffin embedded human adult tissue and embryonic rat tissue. For WB, we recommend blocking in 3-5% milk, NOT BSA. Blocking in BSA gives high background.
<b>アプリケーション</b>	<b>適用あり:</b> WB, IHC-Fr, IHC-P <b>適用なし:</b> IHC-FoFr
<b>種交差性</b>	<b>交差種:</b> Mouse, Rabbit, Human <b>交差が予測される動物種:</b> Cow, Pig, Macaque monkey
<b>免疫原</b>	Synthetic peptide corresponding to Human Iba1 aa 28-42 (internal sequence) (Cysteine residue). NP_001614.3 Sequence: C-NKQFLDDPKYSSDED  Database link: <a href="#">P55008</a>  <a href="#">Run BLAST with</a> <a href="#">Run BLAST with</a>
<b>ポジティブ・コントロール</b>	WB: Human peripheral blood mononucleocyte and frontal cortex lysate. IHC-P: Mouse brain; Human placenta and jejunum; rat embryonic liver tissue.

### 製品の特性

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

## アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab48004** in the following tested applications.

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

アプリケーション	Abreviews	特記事項
WB		Use a concentration of 0.5 - 1.5 µg/ml. Detects a band of approximately 17 kDa (predicted molecular weight: 17 kDa). We recommend blocking in 3-5% milk, not BSA. Blocking in BSA gives high background in WB.
IHC-Fr	★★★★☆	Use at an assay dependent concentration.
IHC-P	★★★★☆	Use a concentration of 2 - 4 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

## 追加情報

Is unsuitable for IHC-FoFr.

## 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.

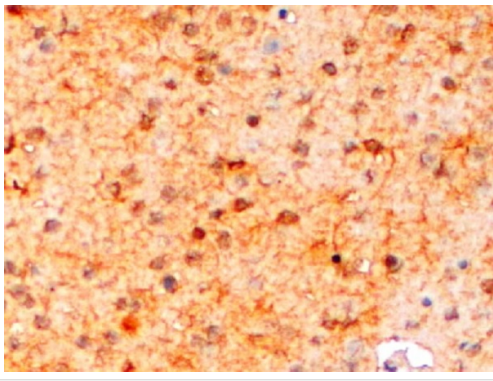
### 翻訳後修飾

Phosphorylated on serine residues.

### 細胞内局在

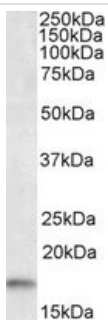
Cytoplasm > cytoskeleton. Cell projection > ruffle membrane. Associated with the actin cytoskeleton at membrane ruffles and at sites of phagocytosis.

## 画像



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Iba1 antibody (ab48004)

Paraffin embedded mouse brain tissue stained for Iba1 with ab48004 (2 µg/ml) in immunohistochemical analysis. Steamed antigen retrieval with citrate buffer pH 6, HRP-staining.

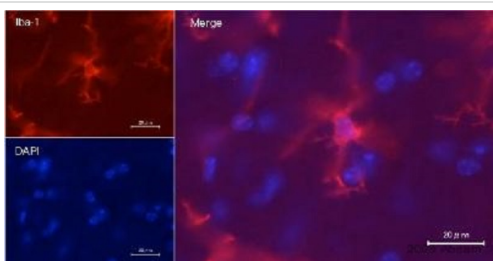


Western blot - Anti-Iba1 antibody (ab48004)

Anti-Iba1 antibody (ab48004) at 0.5 µg/ml + human frontal cortex lysate in RIPA buffer at 35 µg  
Developed using the ECL technique

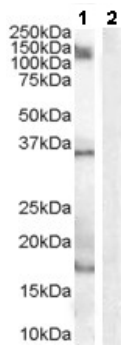
**Predicted band size : 17 kDa**

Primary incubation was 1 hour



Immunohistochemistry (Frozen sections) - Anti-Iba1 antibody (ab48004)

Paraformaldehyde fixed mouse brain tissue stained for Iba1 with ab48004 (1/200 dilution) in immunohistochemical analysis. Secondary: Donkey Anti-Goat IgG Cy3® (1/500 dilution).



Western blot - Iba1 antibody (ab48004)

**All lanes :** Anti-Iba1 antibody (ab48004) at 1  $\mu\text{g/ml}$

**Lane 1 :** Human peripheral blood mononucleocyte lysate in RIPA buffer

**Lane 2 :** Human peripheral blood mononucleocyte lysate in RIPA buffer with blocking peptide

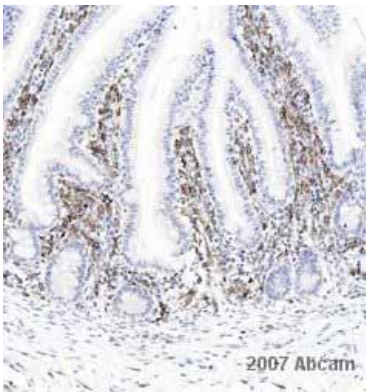
Lysates/proteins at 35  $\mu\text{g}$  per lane.

Developed using the ECL technique

**Predicted band size :** 17 kDa

**Observed band size :** 17 kDa

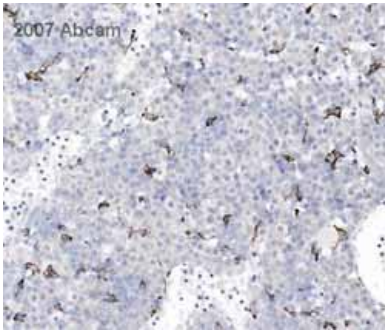
**Additional bands at :** 110 kDa, 35 kDa. We are unsure as to the identity of these extra bands. 1 hour primary antibody incubation. Additional bands of unknown identity observed at 35 kDa and 110 kDa. These bands were successfully blocked by incubation with the immunising peptide



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Iba1 antibody (ab48004)

This image is courtesy of an Abreview submitted by Mr Carl Hobbs

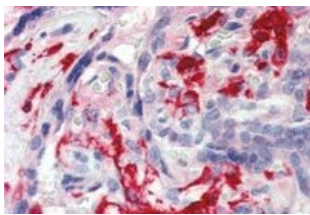
ab48004 at 1/300 staining human jejunum tissue sections by IHC-P. A heat mediated antigen retrieval step in citric acid buffer was performed and the tissue was blocked in BSA before incubation with the antibody for 2 hours. A biotinylated rabbit anti-goat antibody was used as the secondary.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Iba1 antibody (ab48004)

This image is courtesy of an Abreview submitted by Mr Carl Hobbs

ab48004 diluted 1/200 with TBS/BSA/Azide staining rat d15 embryonic liver tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat-mediated antigen retrieval step in citric acid buffer at pH6 was performed prior to blocking with 1% BSA for 10 minutes at room temperature. Incubation time with the primary antibody was 16 minutes. A biotinylated rabbit anti-goat was used as the secondary.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Iba1 antibody (ab48004)

Paraffin embedded human placenta tissue stained for Iba1 with ab48004 (2.5 µg/ml) in immunohistochemical analysis. A heat mediated antigen retrieval step in citric acid buffer (pH 6) was performed.

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