

**Anti-Iba1 Picoband Antibody**  
Catalog # ABO10182**Specification****Anti-Iba1 Picoband Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">P55008</a>
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Allograft inflammatory factor 1(AIF1) detection. Tested with WB, IHC-P in Human.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-Iba1 Picoband Antibody - Additional Information**

**Gene ID** 199

**Other Names**

Allograft inflammatory factor 1, AIF-1, Ionized calcium-binding adapter molecule 1, Protein G1, AIF1, G1, IBA1

**Calculated MW**

16703 MW KDa

**Application Details**

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat  
<br>Western blot, 0.1-0.5 µg/ml, Human<br>

**Subcellular Localization**

Cytoplasm, cytoskeleton. Cell projection, ruffle membrane; Peripheral membrane protein; Cytoplasmic side. Associated with the actin cytoskeleton at membrane ruffles and at sites of phagocytosis.

**Tissue Specificity**

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

**Protein Name**

Allograft inflammatory factor 1

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Na<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence at the C-terminus of human Iba1 (99-133aa

ETFSYPDFLRMMLGKRSAILKMILMYEEKAREKEK), different from the related mouse sequence by seven amino acids, and from the related rat sequence by six amino acids.

#### Purification

Immunogen affinity purified.

#### Cross Reactivity

No cross reactivity with other proteins

#### Storage

**At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time.Avoid repeated freezing and thawing.**

### Anti-Iba1 Picoband Antibody - Protein Information

**Name** AIF1

**Synonyms** G1, IBA1

#### 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.

#### Cellular Location

Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:O70200}. Cell projection, ruffle membrane {ECO:0000250|UniProtKB:O70200}; Peripheral membrane protein {ECO:0000250|UniProtKB:O70200}; Cytoplasmic side {ECO:0000250|UniProtKB:O70200}. Cell projection, phagocytic cup {ECO:0000250|UniProtKB:O70200}. Note=Associated with the actin cytoskeleton at membrane ruffles and at sites of phagocytosis {ECO:0000250|UniProtKB:O70200}

#### Tissue Location

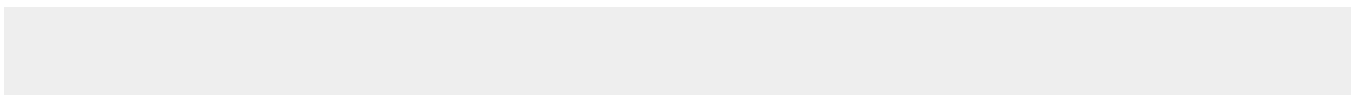
Detected in T-lymphocytes and peripheral blood mononuclear cells.

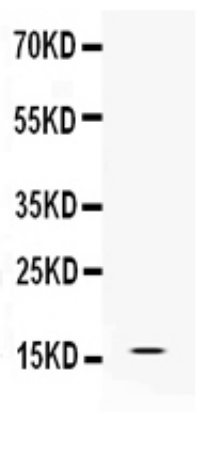
### Anti-Iba1 Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

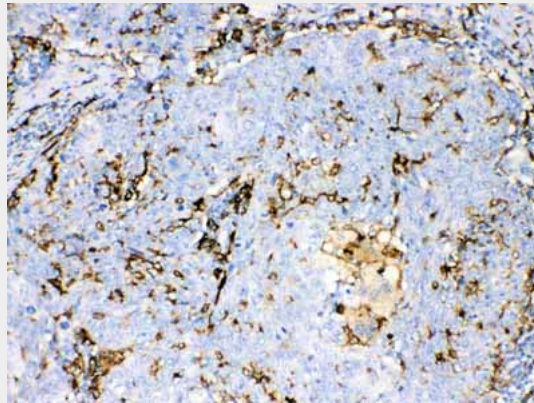
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Anti-Iba1 Picoband Antibody - Images

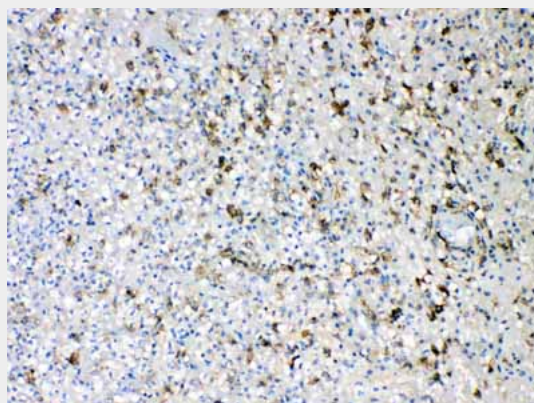




Western blot analysis of Iba1 expression in human blood extract (lane 1). Iba1 at 17KD was detected using rabbit anti- Iba1 Antigen Affinity purified polyclonal antibody (Catalog #ABO10182) at 0.5  $\mu$ g/mL. The blot was developed using chemiluminescence (ECL) method .



Iba1 was detected in paraffin-embedded sections of human lung cancer tissues using rabbit anti- Iba1 Antigen Affinity purified polyclonal antibody (Catalog # ABO10182) at 1  $\mu$ g/mL. The immunohistochemical section was developed using SABC method .



Iba1 was detected in paraffin-embedded sections of human Appendicitis tissues using rabbit anti- Iba1 Antigen Affinity purified polyclonal antibody (Catalog # ABO10182) at 1  $\mu$ g/mL. The immunohistochemical section was developed using SABC method .

### **Anti-Iba1 Picoband Antibody - Background**

Allograft inflammatory factor 1 (AIF-1), also known as ionized calcium-binding adapter molecule

1(IBA1), is a protein that in humans is encoded by the AIF1 gene. This gene encodes a protein that binds actin and calcium. And this gene is induced by cytokines and interferon and may promote macrophage activation and growth of vascular smooth muscle cells and T-lymphocytes. Polymorphisms in this gene may be associated with systemic sclerosis. Alternative splicing results in multiple transcript variants, but the full-length and coding nature of some of these variants is not certain.