

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

Anti-Iba1 Picoband Antibody - Product Information

Application	WB, IHC-P
Primary Accession	P55008
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

Western blot, 0.1-0.5 µg/ml, Human

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 Na₂HPO₄, 0.05mg Na₃.

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 reconstitution, 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}

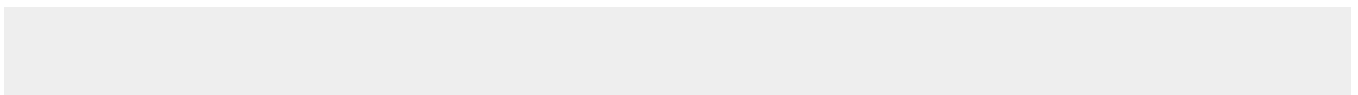
Tissue Location

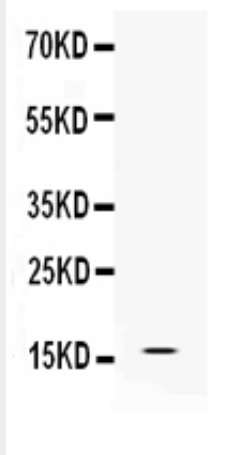
Detected in T-lymphocytes and peripheral blood mononuclear cells.

Anti-Iba1 Picoband Antibody - Protocols

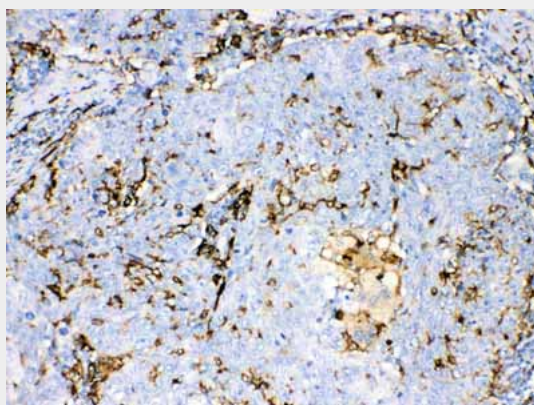
Provided below are standard protocols that you may find useful for product applications.

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

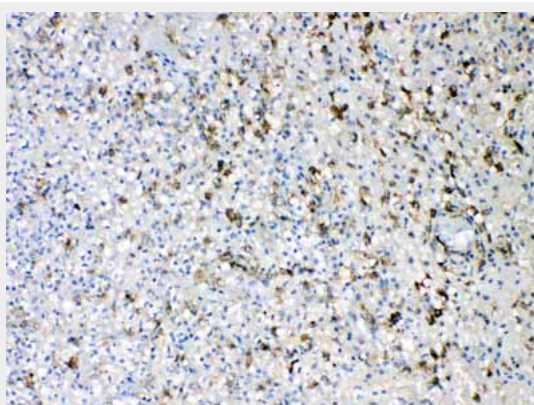
Anti-Iba1 Picoband Antibody - Images



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 μ 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 μ 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 μ 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.