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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 NaN3.

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 Cytomety
- Cell Culture

Anti-Iba1 Picoband Antibody - Images

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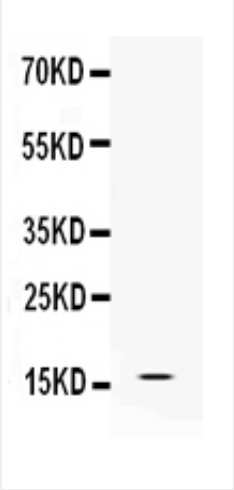
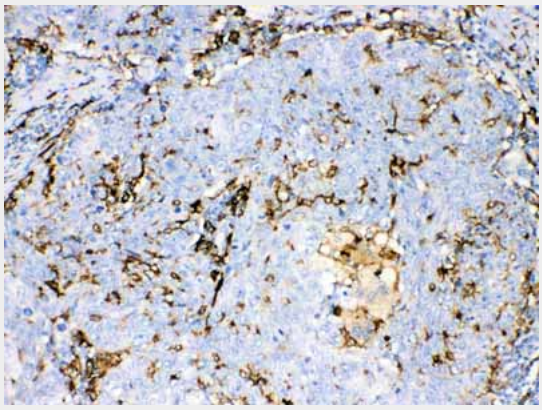
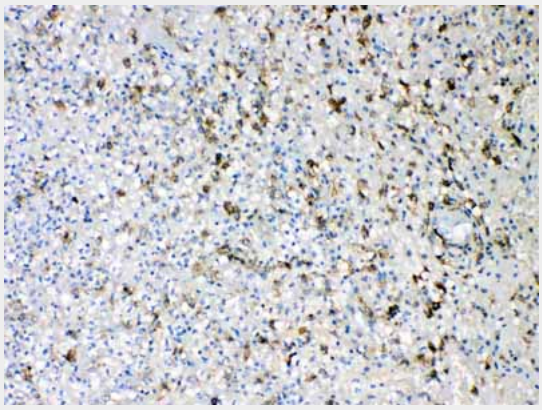


Western blot analysis of Iba1 expression in human blood extract (lane 1). Iba1 at 17KD was detected using rabbit anti- Iba1 Antigen Affinity purified polyclonal antibody (Catalog #ABO10182) at 0.5 Î¼g/mL. The blot was developed using chemiluminescence (ECL) method .



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 Î¼g/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 Î¼g/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.