

Anti-Iba1 Picoband Antibody

Catalog # ABO10182

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.

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
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, By Heat Western blot, 0.1-0.5 μ g/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. .
Source	Eukaryota
Protein Name	Allograft inflammatory factor 1
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
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.

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.

Background

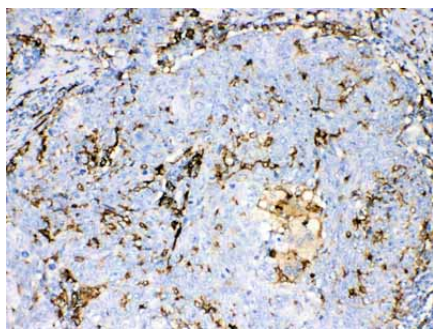
Allograft inflammatory factor 1 (AIF-1), also known as ionized calcium-binding adapter molecule 1 (IBA1), is a protein that in humans is encoded by the AIF1 gene. This gene encodes a protein that binds actin and calcium. And this gene is induced by cytokines and interferon and may promote macrophage 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.

Images

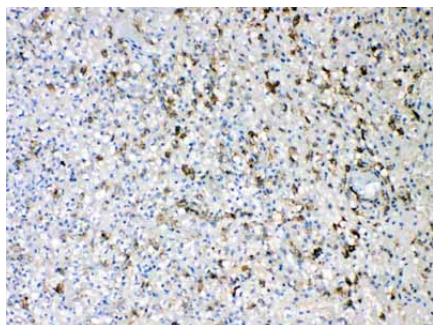


Western blot analysis of Iba1 expression in human blood extract (lane 1). Iba1 at 17KD was detected using rabbit anti- Iba1 Antigen Affinity purified polyclonal antibody (Catalog #ABO10182) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method .

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 .

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.