

AIF1 / Iba1 Rabbit pAb

AIF1 / Iba1 Rabbit pAb Catalog # AP94829

Product Information

Application WB, IHC-P, IHC-F, IF

Primary Accession P55008

Reactivity Rat, Human, Mouse

Host Rabbit
Clonality Polyclonal
Calculated MW 16703
Physical State Liquid

Immunogen KLH conjugated synthetic peptide derived from human Iba1

Epitope Specificity 51-147/147 Isotype IgG

Purity affinity purified by Protein A

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Cytoplasm, cytoskeleton. Cell projection, ruffle membrane; Peripheral

membrane protein; Cytoplasmic side. Note=Associated with the actin

cytoskeleton at membrane ruffles and at sites of phagocytosis.

SIMILARITY Contains 2 EF-hand domains.

SUBUNIT Homodimer (Potential). Monomer. Interacts with LCP1.

Important Note This product as supplied is intended for research use only, not for use in

human, therapeutic or diagnostic applications.

Background Descriptions Allograft Inflammatory Factor-1 (AIF1)or ionized calcium-binding adaptor

molecule 1 (Iba1) is expressed selectively in microglia/macrophages and is a Ca2+-binding peptide produced by activated monocytes and microglial cells.

It has been suggested that AIF1 expression is associated with chronic

inflammatory processes. AIF1 is expressed by activated monocytes and might participate in a variety of pathogenic processes in the mammalian brain and in chronic transplant rejection. It has been shown to be expressed early and persistently in chronically rejecting cardiac allografts but not in cardiac

syngrafts and host hearts.

Additional Information

Gene ID 199

Other Names Allograft inflammatory factor 1, AIF-1, Ionized calcium-binding adapter

molecule 1, Protein G1, AIF1, G1, IBA1

Target/Specificity Detected in T-lymphocytes and peripheral blood mononuclear cells.

Dilution WB=1:500-1000,IHC-P=1:100-500,IHC-F=1:100-500

Storage Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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:070200}. 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

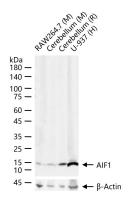
{ECO:0000250 | UniProtKB:O70200}

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

Background

Allograft Inflammatory Factor-1 (AIF1) or ionized calcium-binding adaptor molecule 1 (Iba1) is expressed selectively in microglia/macrophages and is a Ca2+-binding peptide produced by activated monocytes and microglial cells. It has been suggested that AIF1 expression is associated with chronic inflammatory processes. AIF1 is expressed by activated monocytes and might participate in a variety of pathogenic processes in the mammalian brain and in chronic transplant rejection. It has been shown to be expressed early and persistently in chronically rejecting cardiac allografts but not in cardiac syngrafts and host hearts.

Images



25 ug total protein per lane of various lysates (see on figure) probed with AIF1 (9A3) polyclonal antibody, unconjugated (AP94829) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.

Paraformaldehyde-fixed, paraffin embedded Human Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with AIF1 (9A3) Polyclonal Antibody, Unconjugated(AP94829) at 1:200 overnight at 4°C, followed by conjugation to the SP



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