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AIF1 / Iba1 Rabbit pAb

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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.
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
Dilution	WB=1:1000-2000,IHC-P=1:200-1000,IHC-F=1:200-1000,IF=1:200-1000
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: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

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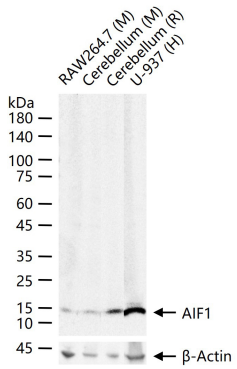
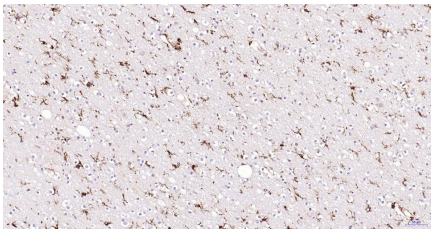
Images



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 Kit(Rabbit, SP-0023) and DAB (C-0010) staining.

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