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AIF1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10449a

Product Information

Application	WB, IHC-P, E
Primary Accession	P55008
Other Accession	NP_001614.3
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB14652
Calculated MW	16703
Antigen Region	6-36

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	This AIF1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 6-36 amino acids from the N-terminal region of human AIF1.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	AIF1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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.

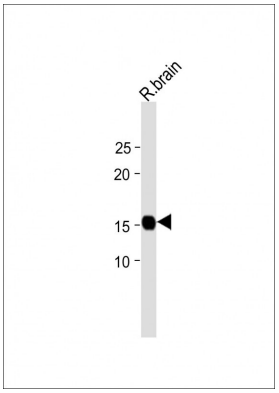
Background

AIF1 is thought to be involved in negative regulation of growth of vascular smooth muscle cells, which contributes to the anti-inflammatory response to vessel wall trauma.

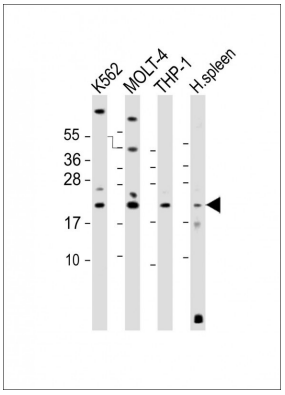
References

Clancy, R.M., et al. Arthritis Rheum. 62(11):3415-3424(2010)
Ucisik-Akkaya, E., et al. Mol. Hum. Reprod. 16(10):770-777(2010)
Davila, S., et al. Genes Immun. 11(3):232-238(2010)
Jia, J., et al. Pediatr. Res. 67(1):29-34(2010)
Barcellos, L.F., et al. PLoS Genet. 5 (10), E1000696 (2009) :

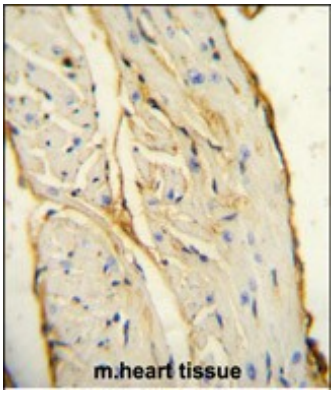
Images



All lanes: Anti-AIF1 Antibody (N-term) at 1:2000 dilution + Rat brain lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 17 KDa Blocking/Dilution buffer: 5% NFDM/TBST.



All lanes : Anti-AIF1 Antibody (N-term) at 1:2000 dilution Lane 1: K562 whole cell lysate Lane 2: MOLT-4 whole cell lysate Lane 3: THP-1 whole cell lysate Lane 4: human spleen lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 17 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



AIF1 antibody (N-term) (Cat. #AP10449a) immunohistochemistry analysis in formalin fixed and paraffin embedded mouse heart tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the AIF1 antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

Citations

- Leukotoxin (Leukothera®) targets active leukocyte function antigen-1 (LFA-1) protein and triggers a lysosomal mediated cell death pathway.