

**AIF1 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP10449a**

**Specification**

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**AIF1 Antibody (N-term) - Product Information**

Application	<b>WB, IHC-P,E</b>
Primary Accession	<a href="#">P55008</a>
Other Accession	<a href="#">NP_001614.3</a>
Reactivity	<b>Human, Mouse</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>Rabbit IgG</b>
Antigen Region	<b>6-36</b>

**AIF1 Antibody (N-term) - 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~~1:2000  
IHC-P~~1:50~100

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. 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.

**AIF1 Antibody (N-term) - 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

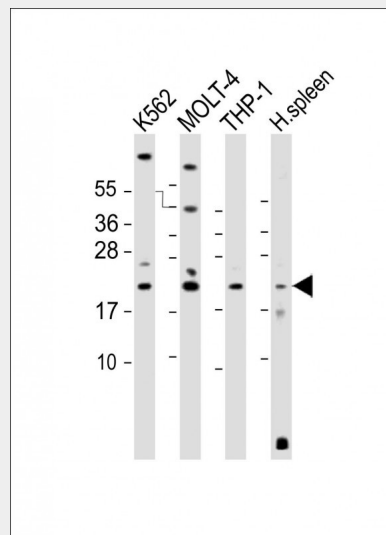
Detected in T-lymphocytes and peripheral blood mononuclear cells.

### AIF1 Antibody (N-term) - Protocols

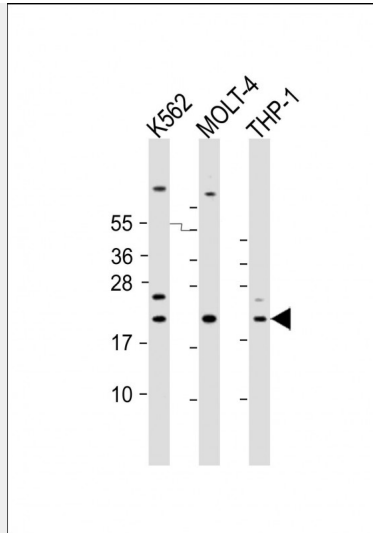
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

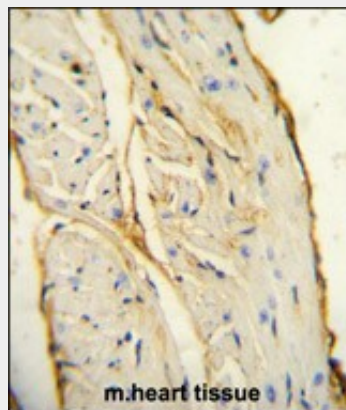
### AIF1 Antibody (N-term) - Images



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.



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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.

### **AIF1 Antibody (N-term) - 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.

### **AIF1 Antibody (N-term) - 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) :

### **AIF1 Antibody (N-term) - Citations**

- [Leukotoxin \(LeukoThera®\) targets active leukocyte function antigen-1 \(LFA-1\) protein and triggers a lysosomal mediated cell death pathway.](#)

