

**AIF1 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP10449a****Specification**

---

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

Primary Accession [P55008](#)  
Other Accession [NP\\_001614.3](#)

**AIF1 Antibody (N-term) Blocking Peptide - Additional Information**

**Gene ID** 199

**Other Names**

Allograft inflammatory factor 1, AIF-1, Ionized calcium-binding adapter molecule 1, Protein G1, AIF1, G1, IBA1

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**AIF1 Antibody (N-term) Blocking Peptide - 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) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

### **AIF1 Antibody (N-term) Blocking Peptide - Images**

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