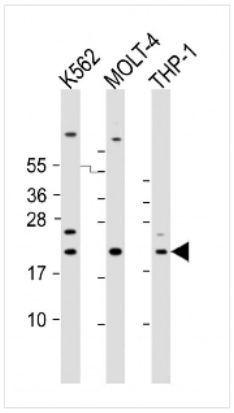
AIF1 Antibody – Rabbit Polyclonal

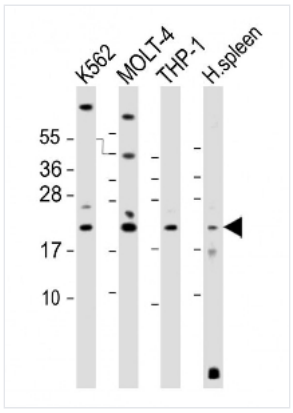
PRODUCT OVERVIEW

Product Name	AIF1, Polyclonal Antibody
Full Product Name	AIF1, NT (AIF1, G1, IBA1, Allograft inflammatory factor 1, Ionized calcium-binding adapter molecule 1, Protein G1) (Azide free) (HRP)
Product Gene Name	anti-AIF1 antibody
Product Synonym Names	AIF1; G1; IBA1; Allograft inflammatory factor 1; Ionized calcium-binding adapter molecule 1; Protein G1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Horseradish Peroxidase (HRP).
Purity/Purification	Purified by Protein A and Peptide Affinity Chromatography.
Specificity	Recognizes huma AIF1. Species Crossreactivity: mouse
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	14,617 Da
OMIM	601833
3D Structure	ModBase 3D Structure for P55008
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 6-36 in the N-terminal region of human AIF1, UniProt Accession: P55008.
Conjugate	HRP
Note	Preservative Free
Product Categories/Family for anti-AIF1 antibody	Antibodies; Adapter Proteins
Applications Tested/Suitable for anti-AIF1 antibody	Immunohistochemistry (IHC) Paraffin, Western Blot (WB), ELISA (EIA)
Application Notes for anti-AIF1 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-AIF1 antibody	MBS6272392 is an antibody targeting AIF1. Also known as AIF1, NT (AIF1, G1, IBA1, Allograft inflammatory factor 1, Ionized calcium-binding adapter molecule 1, Protein G1) (Azide free) (HRP). Reactive in Human, Mouse. Host: Rabbit.
Product References and Citations for anti-AIF1 antibody	1. Clancy, R.M., et al. Arthritis Rheum. 62(11):3415-3424(2010). 2. Ucisik-Akkaya, E., et al. Mol. Hum. Reprod. 16(10):770-777(2010). 3. Davila, S., et al. Genes Immun. 11(3):232-238(2010). 4. Jia, J., et al. Pediatr. Res. 67(1):29-34(2010). 5. Barcellos, L.F., et al. PLoS Genet. 5 (10), E1000696 (2009).

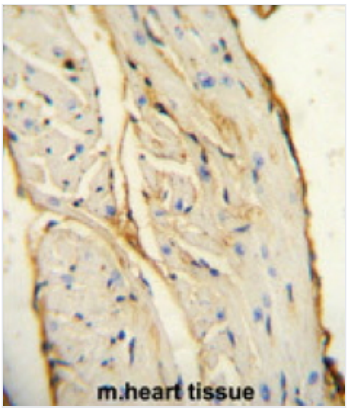
Other Notes	Small volumes of anti-AIF1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



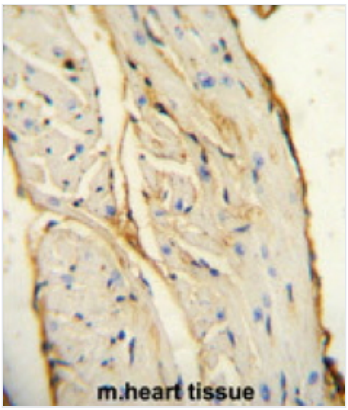
Western Blot (WB) of anti-AIF1 antibody
Western Blot using MBS645437 (1:2000) Lane 1: K562 whole cell lysate Lane 2: MOLT-4 whole cell lysate Lane 3: THP-1 whole cell lysate Lysates/proteins at 20ug/lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1:10,000 dilution. Predicted band size: 17kD Blocking/Dilution buffer: 5% NFDM/TBST.



Western Blot (WB) of anti-AIF1 antibody
Western Blot using MBS645437 (1:2000) 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 20ug/lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1:10,000 dilution. Predicted band size: 17kD Blocking/Dilution buffer: 5% NFDM/TBST.



Immunohistochemistry (IHC) of anti-AIF1 antibody
Immunohistochemistry analysis in formalin fixed and paraffin embedded mouse heart tissue using MBS645437 followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of MBS645437 for immunohistochemistry.



Immunohistochemistry (IHC) of anti-AIF1 antibody
Immunohistochemistry analysis in formalin fixed and paraffin embedded mouse heart tissue using MBS645437 followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of MBS645437 for immunohistochemistry.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AIF1. It may not necessarily be applicable to this product.

NCBI GI #	14574568
NCBI GeneID	199
NCBI Accession #	NP_001614.3
UniProt Primary Accession #	P55008
UniProt Secondary Accession #	O43904; Q9UIV4; Q9UKS9; A8K406
UniProt Related Accession #	P55008
GenBank Nucleotide #	NM_001623.3
NCBI Official Full Name	allograft inflammatory factor 1 isoform 3
NCBI Official Synonym Full Names	allograft inflammatory factor 1
NCBI Official Symbol	AIF1

NCBI Official Synonym Symbols	IBA1; IRT1; AIF-1; IRT-1
UniProt Protein Name	Allograft inflammatory factor 1
UniProt Synonym Protein Names	Ionized calcium-binding adapter molecule 1; Protein G1
Protein Family	Allograft inflammatory factor
UniProt Gene Name	AIF1
UniProt Synonym Gene Names	G1; IBA1; AIF-1
UniProt Entry Name	AIF1_HUMAN
NCBI Protein Information	allograft inflammatory factor 1; allograft inflammatory factor-1 splice variant Hara-1; interferon gamma responsive transcript; ionized calcium-binding adapter molecule 1; protein G1
NCBI Summary for AIF1	This gene is induced by cytokines and interferon. Its protein product 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. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2008]
UniProt Comments for AIF1	AIF1: 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. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Cytoskeletal Chromosomal Location of Human Ortholog: 6p21.3 Cellular Component: perinuclear region of cytoplasm; lamellipodium; cytoplasm; actin filament; perikaryon; nucleus; cytosol; phagocytic cup Molecular Function: actin filament binding; calcium ion binding Biological Process: actin filament bundle formation; positive regulation of nitric oxide biosynthetic process; negative regulation of smooth muscle cell proliferation; positive regulation of smooth muscle cell proliferation; microglial cell activation; Rac protein signal transduction; cellular response to hormone stimulus; actin filament polymerization; positive regulation of muscle hyperplasia; cellular response to extracellular stimulus; positive regulation of T cell proliferation; response to axon injury; positive regulation of protein amino acid phosphorylation; phagocytosis, engulfment; response to electrical stimulus; inflammatory response; negative regulation of apoptosis
Research Articles on AIF1	**1.** AIF-1 functions as a tumor suppressor possibly by regulating beta-catenin in gastric cancer. the level of AIF-1 expression may serve as a protective prognostic indicator for gastric cancer.
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