

Goat AIF1 / IBA1 Polyclonal Antibody | anti-AIF1 antibody

Goat Polyclonal to Human AIF1 / IBA1

CATALOG # AAA12318	HOST Goat	REACTIVITY Human, Monkey, Mouse, Rat, Hamster, Pig	APPLICATIONS Immunohistochemistry, Western Blot, ELISA
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PRODUCT SYNONYMS

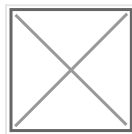
AIF1 / IBA1; Polyclonal Antibody; Goat Polyclonal to Human AIF1 / IBA1; AIF1 | AIF-1 | Em:AF129756.17 | G1 | IRT-1 | Protein G1 | IBA1 | IRT1; anti-AIF1 antibody

PRODUCT SPECIFICATIONS

Host	Goat
Reactivity	Human, Monkey, Mouse, Rat, Hamster, Pig
Clonality	Polyclonal
Specificity	Human AIF1 / IBA1. This antibody is expected to recognize isoform 1 (NP_116573.1) and isoform 3 (NP_001614.3).
Purity/Purification	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Form/Format	TBS, pH 7.3, 0.02% Sodium Azide, 0.5% BSA
Concentration	0.5mg/ml (varies by lot)
Applicable Applications for anti-AIF1 antibody	IHC (Immunohistochemistry), WB (Western Blot), ELISA
Application Notes	IHC - Paraffin (5 µg/ml) Western blot (0.3 - 1 µg/ml) Peptide Enzyme-Linked Immunosorbent Assay (1:128000) Optimal dilution to be determined by the researcher Usage: Immunohistochemistry: AAA12318 was validated for use in immunohistochemistry on a panel of 21 formalin-fixed, paraffin-embedded (FFPE) human tissues after heat induced antigen retrieval in pH 6.0 citrate buffer. After incubation with the primary antibody, slides were incubated with biotinylated secondary antibody, followed by alkaline phosphatase-streptavidin and chromogen. The stained slides were evaluated by a pathologist to confirm staining specificity. The optimal working concentration for AAA12318 was determined to be 5 ug/ml.
Target	Human AIF1 / IBA1
Immunogen Species	Raised against Human
Immunogen	Raised against peptide with sequence C-TGPPAKKAISELP, from the C-Terminus of protein sequence according to NP_116573.1NP_001614.3.
Epitope	aa149-161
Disclaimer	Due to the highly specific nature of antibodies and antigens, we cannot predict or be held responsible with respect to how this antibody will behave in your systems. Researchers using this antibody should conduct optimization studies to achieve the most optimal result possible for their intended application.

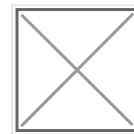
Recommended Immunohistochemistry Protocol	The following protocol is a recommendation only, and AAA Biotech, Inc. makes no guarantee of the results: Tissue Preparation: Formalin fixation and embedding in paraffin wax. Tissue Sectioning: Make 4-um sections and place on pre-cleaned and charged microscope slides. Heat in a tissue-dryingoven for 45 minutes at 60°C. Deparaffinization: Wash dry slides in 3 changes of xylene - 5 minutes each @ RT Rehydration: Wash slides in 3 changes of 100% alcohol - 3 minutes each @ RT Wash slides in 2 changes of 95% alcohol - 3 minutes each @ RT Wash slides in 1 change of 80% alcohol - 3 minutes @ RT Rinse slides in gentle running distilled water - 5 minutes @ RT Antigen retrieval: Steam slides in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes Remove from heat and let stand at room temperature in buffer - 20 minutes Rinse in 1X TBS with Tween (TBST) -1 minute @ RT Immunostaining: (Do not allow tissues to dry at any time during the staining procedure) Apply a universal protein block - 20 minutes @ RT Drain protein block from slides, apply diluted primary antibody - 45 minutes @ RT Rinse slides in 1 X TBST - 1 minute @ RT Apply a biotinylated secondary antibody appropriate for the primary antibody - 30 minutes @ RT Rinse slides in 1X TBST -1 minute @ RT Apply alkaline phosphatase streptavidin - 30 minutes @ RT Rinse slides in 1X TBST -1 minute @ RT Apply alkaline phosphatase chromogen substrate - 30 minutes @ RT Wash slides in distilled water - 1 minute @ RT Dehydrate: (This method should only be used if the chromogen substrate is alcohol insoluble (e.g. Vector Red, DAB) Wash slides in 2 changes of 80% alcohol - 1 minute each @ RT Wash slides in 2 changes of 95% alcohol - 1 minute each @ RT Wash slides in 3 changes of 100% alcohol - 1 minute each @ RT Wash slides in 3 changes of xylene - 1 minute each @ RT Apply coverslip
Preparation and Storage	Aliquot and store at -20°C. Avoid freeze-thaw cycles.

IMAGES



WB (Western Blot)

Antibody (0.5 ug/ml) staining of Rat Brain lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



IHC (Immunohistochemistry)

Anti-AIF1 / IBA1 antibody IHC of human lung. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody concentration 5 ug/ml.

ADDITIONAL INFORMATION

Related Product Information for anti-AIF1 antibody

Allograft inflammatory Factor 1 (AIF1) is a calcium binding peptide produced by activated monocytes and microglial cells. AIF1 expression is associated with chronic inflammatory processes and is also transiently expressed in response to vascular trauma.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4758612
NCBI GeneID	199
NCBI Accession #	NP_004838.1
NCBI GenBank Nucleotide #	NM_004847.3
UniProt Accession #	P55008; O43904; Q9UIV4; Q9UKS9; A8K406
NCBI Official Full Name	allograft inflammatory factor 1 isoform 2
NCBI Official Synonym Full Names	allograft inflammatory factor 1
NCBI Official Symbol	AIF1
NCBI Official Synonym Symbols	IBA1; IRT1; AIF-1; IRT-1
NCBI Protein Information	allograft inflammatory factor 1; protein G1; interferon gamma responsive transcript; ionized calcium-binding adapter molecule 1; allograft inflammatory factor-1 splice variant Hara-1
UniProt Protein Name	Allograft inflammatory factor 1
UniProt Gene Name	AIF1
UniProt Synonym Gene Names	G1; IBA1; AIF-1
UniProt Entry Name	AIF1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/aif1-iba1-antibody-immunohistochemistry-western-blot-elisa/12318>