

## ARG63338 anti-AIF1 / Iba 1 antibody

Package: 100 µg, 50 µg  
Store at: -20°C

### Summary

Product Description	Goat Polyclonal antibody recognizes AIF1 / Iba 1
Tested Reactivity	Hu, Ms, Rat, Bov, Dog, Gpig, Marmoset, Rb
Predict Reactivity	Macaq, Pig
Tested Application	ICC/IF, IHC-P, WB
Specificity	This antibody is expected to recognize isoform 1 (NP_116573.1) and isoform 3 (NP_001614.3). AIF1 / IBA1 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.
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	AIF1 / Iba 1
Species	Human
Immunogen	C-TGPPAKKAISELP
Conjugation	Un-conjugated
Alternate Names	Ionized calcium-binding adapter molecule 1; Allograft inflammatory factor 1; IBA1; IRT-1; IRT1; AIF-1; Protein G1

### Application Instructions

Application table	Application	Dilution
	ICC/IF	1:100
	IHC-P	6 µg/ml
	WB	1 - 3 µg/ml
Application Note	WB: Recommend incubate at RT for 1h. IHC-P: Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0). * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Raw264.7, Mouse brain and Rat brain	
Observed Size	15 - 18 kDa	

### Properties

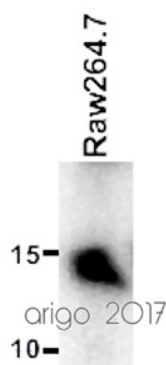
Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.

Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

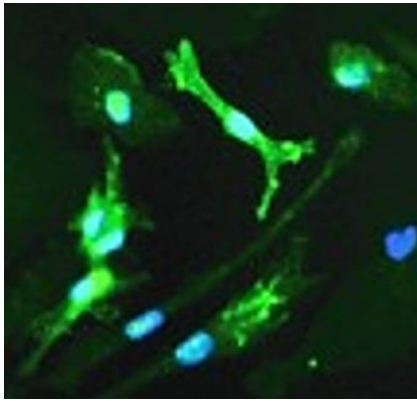
Background	AIF1 / Iba 1 is a protein that binds actin and calcium. This gene is induced by cytokines and interferon and may promote macrophage activation and growth of vascular smooth muscle cells and T-lymphocytes. Polymorphisms in this gene may be associated with systemic sclerosis. Alternative splicing results in multiple transcript variants, but the full-length and coding nature of some of these variants is not certain. [provided by RefSeq, Jan 2016]
Function	AIF1 / Iba 1 is an Actin-binding protein. It 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. [UniProt]
Highlight	Related Antibody Duos and Panels: <a href="#">ARG30317 Activated Macrophage / Microglia Marker Antibody Duo</a> Related products: <a href="#">AIF1 antibodies</a> ; <a href="#">AIF1 Duos / Panels</a> ; <a href="#">Anti-Goat IgG secondary antibodies</a> ; Related news: <a href="#">Microglial help TAM-ing inflammation in the brain</a> <a href="#">LKB1 deficiency in T cells promotes gut tumors</a>
Research Area	Cell Biology and Cellular Response antibody; Immune System antibody; Metabolism antibody; Neuroscience antibody; Activated Macrophage/Microglia Study antibody; Neuroinflammation Study antibody; Macroglial Marker antibody
Calculated Mw PTM	17 kDa Phosphorylated on serine residues.

## Images



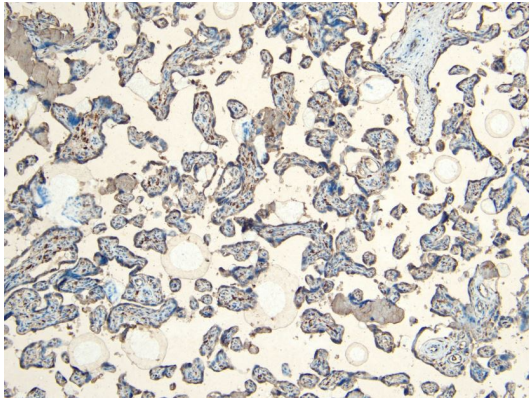
ARG63338 anti-AIF1 / Iba 1 antibody WB image

Western blot: 20 µg of Raw264.7 cell lysate stained with ARG63338 anti-AIF1 / Iba 1 antibody at 1:500 dilution.



ARG63338 anti-AIF1 / Iba 1 antibody ICC/IF image

Immunofluorescence: LPS treated cultured Human microglia stained with ARG63338 anti-AIF1 / Iba 1 antibody at 1:100 dilution.



ARG63338 anti-AIF1 / Iba 1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human placenta tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0). The tissue section was stained with ARG63338 anti-AIF1 / Iba 1 antibody at 6 µg/ml dilution followed by HRP-staining.



ARG63338 anti-AIF1 / Iba 1 antibody WB image

Western blot: 35 µg of Mouse brain and Rat brain lysates (in RIPA buffer) stained with ARG63338 anti-AIF1 / Iba 1 antibody at 1 µg/ml (left lane) or 2 µg/ml (right lane) and incubated at RT for 1 hour.