

ARG63951 anti-AIF1 / Iba 1 antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes AIF1 / Iba 1
Tested Reactivity	Hu, Ms
Predict Reactivity	Dog
Tested Application	FACS, ICC/IF, IHC-P, WB
Specificity	This antibody is expected to recognise isoform 3 (NP_001614.3) only.
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	AIF1 / Iba 1
Species	Human
Immunogen	C-NKQFLDDPKYSSDED
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
	FACS	10 µg/ml
	ICC/IF	10 µg/ml
	IHC-P	2 - 4 µg/ml
	WB	0.5 - 1.5 µg/ml
Application Note	IHC-P: Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). WB: Recommend incubate at RT for 1h. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

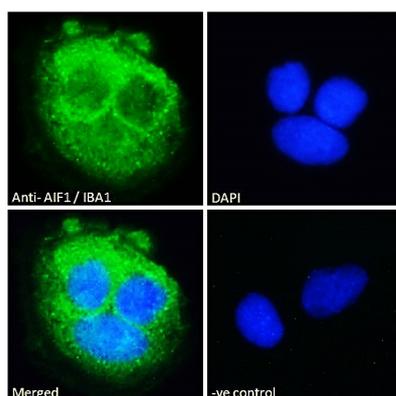
Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA

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

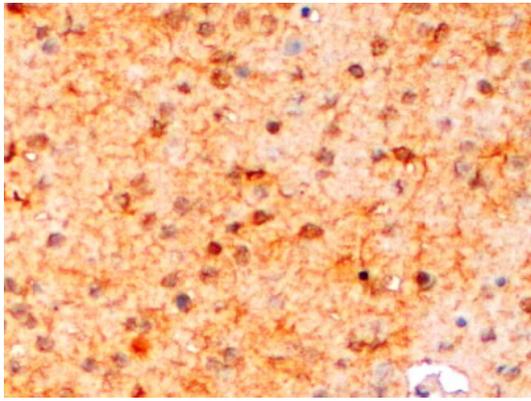
Database links	GeneID: 11629 Mouse GeneID: 199 Human Swiss-port # O70200 Mouse Swiss-port # P55008 Human
Background	AIF1 / Iba 1 is a protein that binds actin and calcium. This gene is induced by cytokines and interferon and may promote macrophage activation and growth of vascular smooth muscle cells 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]
Research Area	Cell Biology and Cellular Response antibody; Immune System antibody; Metabolism antibody; Neuroscience antibody; Activated Macrophage/Microglia Study antibody; Neuroinflammation Study antibody; Macrogial Marker antibody
Calculated Mw	17 kDa
PTM	Phosphorylated on serine residues.

Images



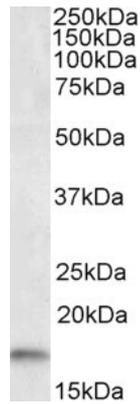
ARG63951 anti-AIF1 / Iba 1 antibody ICC/IF image

Immunofluorescence: Paraformaldehyde fixed Caco-2 cells permeabilized with 0.15% Triton. Cells were stained with ARG63951 anti-AIF1 / Iba 1 antibody (green) at 10 µg/ml dilution for 1 hour. DAPI (blue) for nuclear staining. Negative control: Unimmunized goat IgG (green) at 10 µg/ml dilution.



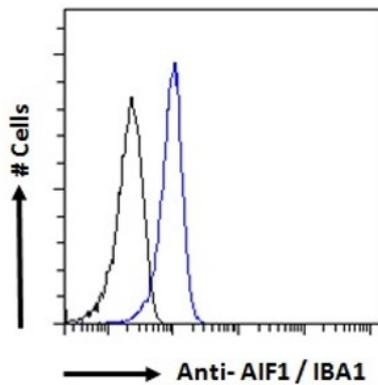
ARG63951 anti-AIF1 / Iba 1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse brain tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG63951 anti-AIF1 / Iba 1 antibody at 2 µg/ml dilution, followed by HRP-staining.



ARG63951 anti-AIF1 / Iba 1 antibody WB image

Western blot: 35 µg of Human frontal cortex lysate (in RIPA buffer) stained with ARG63951 anti-AIF1 / Iba 1 antibody at 0.5 µg/ml dilution and incubated at RT for 1 hour.



ARG63951 anti-AIF1 / Iba 1 antibody FACS image

Flow Cytometry: Paraformaldehyde-fixed K562 cells permeabilized with 0.5% Triton. Cells were stained with ARG63951 anti-AIF1 / Iba 1 antibody (blue line) at 10 µg/ml dilution for 1 hour, followed by incubation with Alexa FluorR 488 labelled secondary antibody. IgG control: Unimmunized goat IgG (black line).