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Goat Anti-AIF1 / IBA1 (isoform 1 and 3) Antibody

Peptide-affinity purified goat antibody
Catalog # AF1039a

Specification

Goat Anti-AIF1 / IBA1 (isoform 1 and 3) Antibody - Product Information

Application	**WB, IHC**
Primary Accession	P55008
Other Accession	NP_001614, 199, 11629 (mouse), 29427 (rat)
Reactivity	**Rat**
Predicted	**Human, Mouse, Pig**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**16703**

Goat Anti-AIF1 / IBA1 (isoform 1 and 3) Antibody - 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
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Goat Anti-AIF1 / IBA1 (isoform 1 and 3) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-AIF1 / IBA1 (isoform 1 and 3) Antibody - 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}

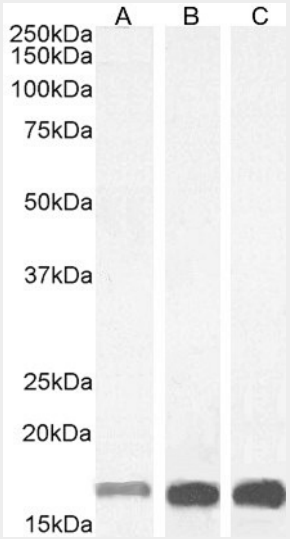
Tissue Location
Detected in T-lymphocytes and peripheral blood mononuclear cells.

Goat Anti-AIF1 / IBA1 (isoform 1 and 3) Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Goat Anti-AIF1 / IBA1 (isoform 1 and 3) Antibody - Images



EB05419 (1µg/ml) staining of Human Frontal Cortex (A) Mouse Brain (B) and Rat Brain (C) lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.

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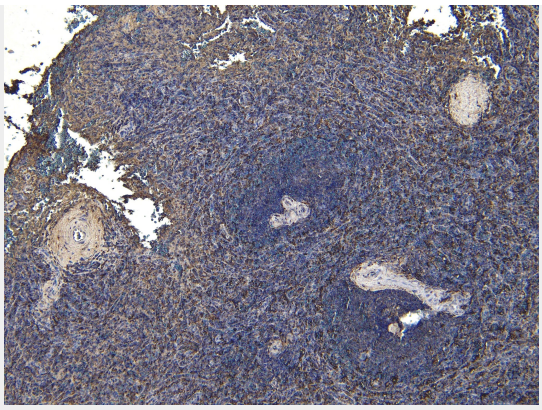
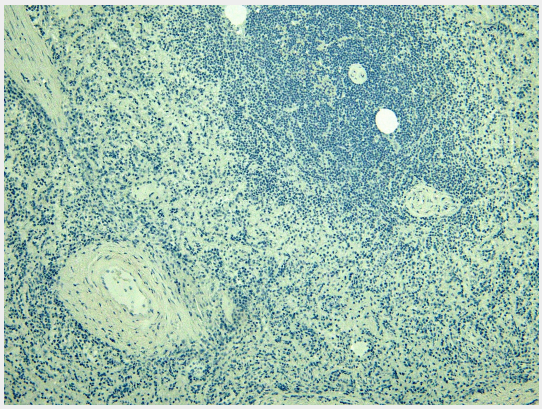


EB05419 (6µg/ml) staining of paraffin embedded Human Spleen. Heat induced antigen retrieval with citrate buffer pH 6, HRP-staining.



EB05419 Negative Control showing staining of paraffin embedded Human Spleen, with no primary antibody.

Goat Anti-AIF1 / IBA1 (isoform 1 and 3) Antibody - Background

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.

Goat Anti-AIF1 / IBA1 (isoform 1 and 3) Antibody - References

Examination of genetic polymorphisms in newborns for signatures of sex-specific prenatal selection. Ucisik-Akkaya E, et al. Mol Hum Reprod, 2010 Oct. PMID 20587610.
New genetic associations detected in a host response study to hepatitis B vaccine. Davila S, et al. Genes Immun, 2010 Apr. PMID 20237496.
High-density SNP screening of the major histocompatibility complex in systemic lupus erythematosus demonstrates strong evidence for independent susceptibility regions. Barcellos LF, et al. PLoS Genet, 2009 Oct. PMID 19851445.
Overexpression of allograft inflammatory factor-1 promotes the proliferation and migration of human endothelial cells (HUV-EC-C) probably by up-regulation of basic fibroblast growth factor. Jia J, et al. Pediatr Res, 2010 Jan. PMID 19745784.
Transcriptomic and genetic studies identify IL-33 as a candidate gene for Alzheimer's disease. Chapuis J, et al. Mol Psychiatry, 2009 Nov. PMID 19204726.