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# Goat Anti-AIF1 / IBA1 (isoform 3) Antibody

**Peptide-affinity purified goat antibody**
**Catalog # AF1039b**

## Specification

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

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

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

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

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

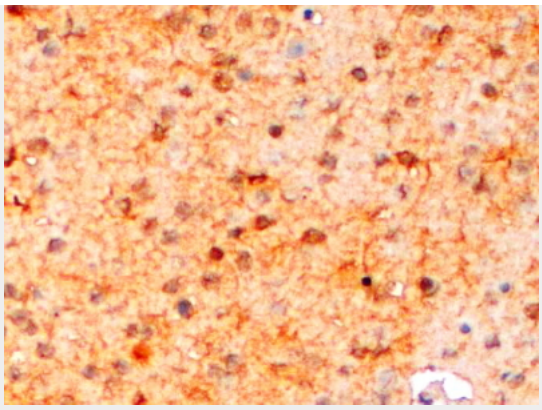
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

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




AF1039b (0.5 µg/ml) staining of Human Frontal Cortex lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

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AF1039b (2 µg/ml) staining of paraffin embedded Mouse Brain. Steamed antigen retrieval with citrate buffer pH 6, HRP-staining.

**Goat Anti-AIF1 / IBA1 (isoform 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 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.