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AIF1/IBA1 Mouse mAb

Catalog No.: A27316 **3 Publications**

Basic Information

Observed MW
17 kDa

Calculated MW
17 kDa

Category
Primary antibody

Applications
WB,IF-F,IF-P,IHC-P,ELISA

Cross-Reactivity
Human, Mouse, Rat

CloneNo number
AMC50058

Background

Enables actin filament binding activity and calcium ion binding activity. Involved in several processes, including Rac protein signal transduction; actin filament organization; and ruffle assembly. Acts upstream of or within actin filament bundle assembly. Located in several cellular components, including actin filament; phagocytic cup; and ruffle membrane. Is expressed in adrenal cortex; central nervous system; embryo mesenchyme; and retina. Human ortholog(s) of this gene implicated in type 1 diabetes mellitus. Orthologous to human AIF1 (allograft inflammatory factor 1).
Note:This product is a modified chimeric antibody. For multiplex staining of multiple targets, we recommend using Fc-specific secondary antibodies.

Recommended Dilutions

WB	1:1000 - 1:3000
IF-F	1:100 - 1:400
IF-P	1:100 - 1:400
IHC-P	1:2000 - 1:8000
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
11629

Swiss Prot
O70200

Immunogen
Recombinant protein (or fragment).This information is considered to be commercially sensitive.

Synonyms
G1; Iba1; AIF-1; D17H6S50E

Contact

400-999-6126

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Product Information

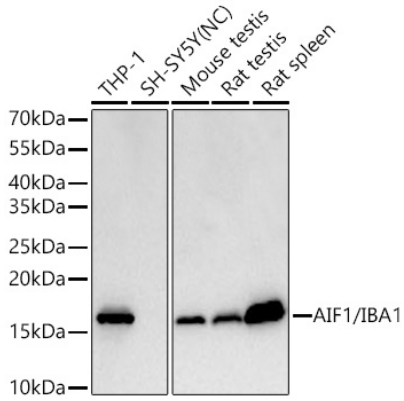
Source
Mouse

Isotype
IgG1. Rabbit-derived mouse chimeric antibody

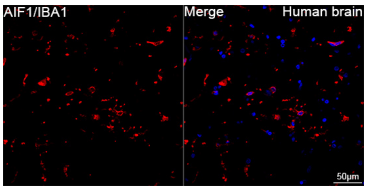
Purification
Affinity purification

Storage
Store at -20℃

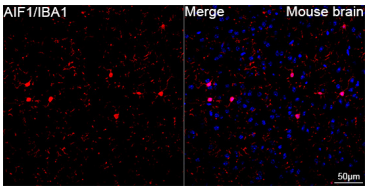
Validation Data



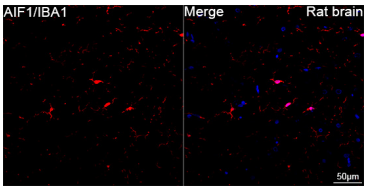
Western blot analysis of various lysates using AIF1/IBA1 Mouse mAb (A27316) at 1:1900 dilution incubated at room temperature for 1.5 hours.
Secondary antibody: HRP-conjugated Goat anti-Mouse IgG (H+L) (AS003) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Negative control (NC): SH-SY5Y
Exposure time: 45s.



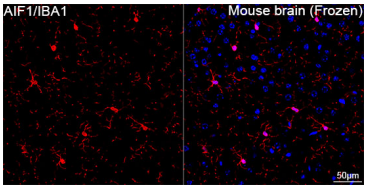
Confocal imaging of paraffin-embedded Human brain tissue using AIF1/IBA1 Mouse mAb (A27316, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Mouse IgG (H+L) (AS008, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



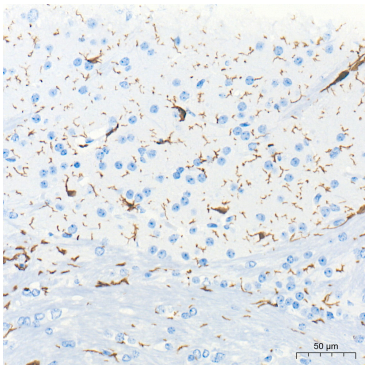
Confocal imaging of paraffin-embedded Mouse brain tissue using AIF1/IBA1 Mouse mAb (A27316, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Mouse IgG (H+L) (AS008, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



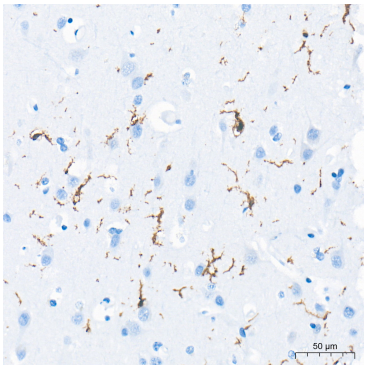
Confocal imaging of paraffin-embedded Rat brain tissue using AIF1/IBA1 Mouse mAb (A27316, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Mouse IgG (H+L) (AS008, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Confocal imaging of frozen sections Mouse brain tissue using AIF1/IBA1 Mouse mAb (A27316, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Mouse IgG (H+L) (AS008, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue using AIF1/IBA1 Mouse mAb (A27316) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human brain tissue using AIF1/IBA1 Mouse mAb (A27316) at a dilution of 1:2000 (40x lens). Microwave antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

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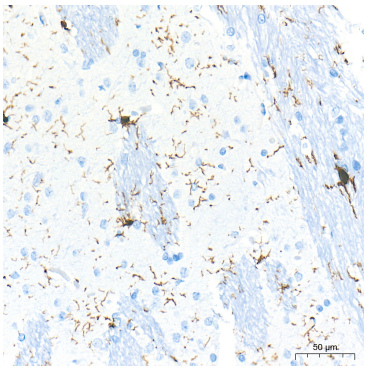
Validation Data



Immunohistochemistry analysis of paraffin-embedded Rat brain tissue using AIF1/IBA1 Mouse mAb (A27316) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

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