Datasheet for ABIN685477  
**anti-Iba1 antibody (AA 51-147)**

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### Overview

- **Quantity:** 100 μL  
- **Target:** Iba1 (AIF1)  
- **Binding Specificity:** AA 51-147  
- **Reactivity:** Human, Rat, Mouse  
- **Host:** Rabbit  
- **Clonality:** Polyclonal  
- **Conjugate:** This Iba1 antibody is un-conjugated  
- **Application:** Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

### Product Details

- **Immunogen:** KLH conjugated synthetic peptide derived from human AIF1  
- **Isotype:** IgG  
- **Predicted Reactivity:** Pig  
- **Purification:** Purified by Protein A.

### Target Details

- **Target:** Iba1 (AIF1)  
- **Alternative Name:** AIF1 ([AIF1 Products](https://www.anticorps-enligne.fr/aif1-products))
### Target Details

**Background:** 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.

Subcellular location: Cytoplasm, Cell membrane

Synonyms: IBA1, IRT1, AIF-1, IRT-1, Allograft inflammatory factor 1, Ionized calcium-binding adapter molecule 1, Protein G1, AIF1, G1

**Gene ID:** 199

**UniProt:** P55008

**Pathways:** Smooth Muscle Cell Migration

### Application Details

**Application Notes:**
- WB 1:300-5000
- ELISA 1:500-1000
- FCM 1:20-100
- IHC-P 1:200-400
- IHC-F 1:100-500
- IF(IHC-P) 1:50-200
- IF(IHC-F) 1:50-200
- IF(ICC) 1:50-200

**Restrictions:** For Research Use only

### Handling

**Format:** Liquid

**Concentration:** 1 μg/μL

**Buffer:** 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

**Preservative:** ProClin

**Precaution of Use:** This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

**Storage:** -20 °C
Handling

Storage Comment: Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Expiry Date: 12 months

Publications

Product cited in:


There are more publications referencing this product on: Product page
**Immunohistochemistry**

**Image 1.** Formalin-fixed and paraffin embedded mouse brain labeled with Anti-AIF1/IBa-1 Polyclonal Antibody, Unconjugated (ABIN685477) followed by conjugation to the secondary antibody and DAB staining.

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**Immunofluorescence (Paraffin-embedded Sections)**

**Image 2.** Formalin-fixed and paraffin embedded rat brain labeled with Rabbit Anti-AIF1 Polyclonal Antibody, Unconjugated used at 1:200 dilution for 40 minutes at 37°C.

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**Immunofluorescence (Paraffin-embedded Sections)**

**Image 3.** Formalin-fixed and paraffin embedded rat brain tissue labeled with Anti-AIF1 Polyclonal Antibody, unconjugated 1:200, 40 minutes at 37°C.

Please check the [product details page](#) for more images. Overall 7 images are available for ABIN685477.
Validation report #029613 for Immunofluorescence (IF)

Successfully validated (Immunofluorescence (IF))

by Reveal Biosciences

Report Number: 029613

Date: Feb 21 2014

Lot Number: 980993W

Method validated: Immunofluorescence (IF)

Positive Control: Mouse spleen

Negative Control: Mouse duodenum

Notes: Strong signal was observed in the positive control tissue, while no signal was observed in the negative control tissue.

Primary Antibody: - Antibody: AIF1 - Catalog number: ABIN685477 - Supplier: Bioss - Supplier catalog number: bs-1363r - Lot number: 980993W

Secondary Antibody: - Antibody: Alexa Fluor 546 Donkey Anti Rabbit - Catalog number: A10040 - Supplier: Life Technologies - Lot number: 1218269

Isotype: - Antibody: Rabbit IgG isotype control - Catalog number: I5006 - Supplier: Sigma - Batch number: SLBD3695V

Controls:

- Positive control: Wild type mouse spleen (specimen known to contain the target protein) from Explora BioLabs.
- Negative Control: Wild type mouse duodenum (specimen known to not contain the target protein) from Explora BioLabs.
- Primary antibody isotype control: Wild type mouse spleen treated with primary antibody isotype control instead of the primary antibody.
- Secondary antibody only control: Wild type mouse spleen treated with secondary antibody only (no primary antibody).

Protocol:

- Frozen, OCT embedded tissues were cut 5 µm and mounted on positive charged slides.
- Sections were air dried for 30 min prior to fix in 10% neutral buffered formalin for 10 min.
- Fixed slides were rinsed three times in PBS for 5 min each at RT.
- Sections were blocked in 1 X PBS / 3% donkey serum / 0.1% Triton X-100 for 10 min at RT.
- Sections were incubated with primary antibody diluted 1:100 in Universal Antibody Dilution Buffer (Electron Microscopy Sciences, 25886-05) overnight at 4°C.
- Sections were rinsed three times in PBS for 5 min each at RT.
- Sections were incubated with secondary antibody diluted 1:200 in Universal Antibody Dilution
Validation report #029613 for Immunofluorescence (IF)

Buffer (Electron Microscopy Sciences, 25886-05) for 120 min at RT in dark.
- Sections were mounted on slides with FluoroGel II with DAPI (Electron Microscopy Sciences).
- Stained sections were imaged with a 3D Histech Pannoramic SCAN 150.

Experimental Notes: None

Images for Validation report #029613

**Validation image no. 1 for anti-Allograft Inflammatory Factor 1 (AIF1) (AA 51-147) antibody (ABIN685477)**

Figure 1: AIF1 staining on mouse spleen (red), counterstained with DAPI (blue).

**Validation image no. 2 for anti-Allograft Inflammatory Factor 1 (AIF1) (AA 51-147) antibody (ABIN685477)**

Figure 2: AIF1 staining on mouse duodenum (red), counterstained with DAPI (blue).

**Validation image no. 3 for anti-Allograft Inflammatory Factor 1 (AIF1) (AA 51-147) antibody (ABIN685477)**

Figure 3: Isotype control staining on mouse spleen (red), counterstained with DAPI (blue).
Validation image no. 4 for anti-Allograft Inflammatory Factor 1 (AIF1) (AA 51-147) antibody (ABIN685477)

Figure 4: Secondary only staining on mouse spleen (red), counterstained with DAPI (blue).