



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



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Overview

Quantity:	100 µL
Target:	Iba1 (IBA1)
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 (IBA1)
Alternative Name:	AIF1 (IBA1 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: Ko, Shie, Lin, Chen, Yao, Chen: "Biodegradable Bisvinyl Sulfonemethyl-crosslinked Gelatin Conduit Promotes Regeneration after Peripheral Nerve Injury in Adult Rats." in: **Scientific reports**, Vol. 7, Issue 1, pp. 17489, (2018) ([PubMed](#)).

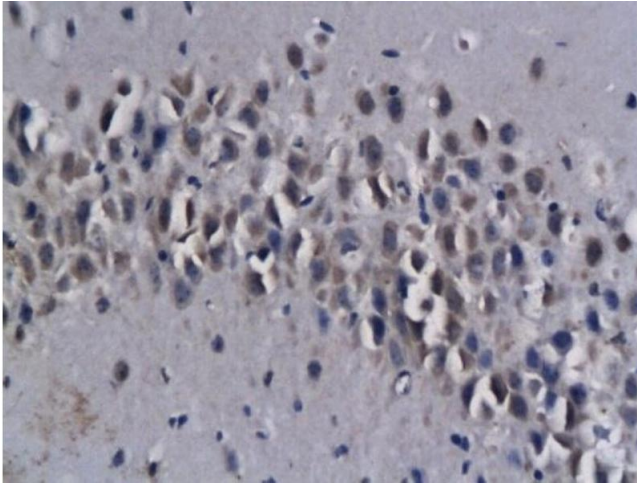
Hsu, Yao, Hsu, Lin, Chen, Chen: "Effects of Taxol on Regeneration in a Rat Sciatic Nerve Transection Model." in: **Scientific reports**, Vol. 7, pp. 42280, (2017) ([PubMed](#)).

Fu, Xia, Liu, Wang, Wang, Shi, Song, Song, Song et al.: "The acute exposure of tetrachloro-p-benzoquinone (a.k.a. chloranil) triggers inflammation and neurological dysfunction via Toll-like receptor 4 signaling: The protective role of melatonin ..." in: **Toxicology**, Vol. 381, pp. 39-50, (2017) ([PubMed](#)).

Hu, Kodithuwakku, Zhou, Li, Han, Fang, Liu, Li: "Levo-Corydalmine Alleviates Neuropathic Cancer Pain Induced by Tumor Compression via the CCL2/CCR2 Pathway." in: **Molecules (Basel, Switzerland)**, Vol. 22, Issue 6, (2017) ([PubMed](#)).

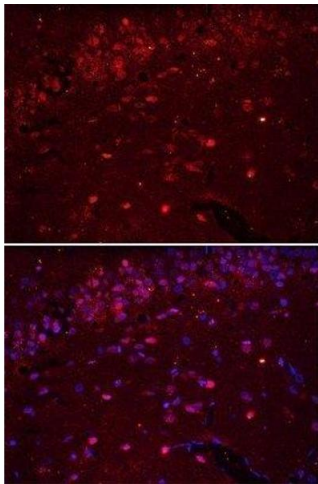
Furukawa, Nagaike, Ozaki: "Databases for technical aspects of immunohistochemistry." in: **Journal of toxicologic pathology**, Vol. 30, Issue 1, pp. 79-107, (2017) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)



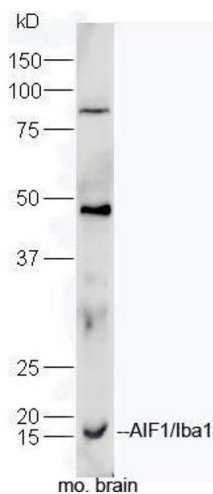
Immunohistochemistry

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



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.



Immunofluorescence (Paraffin-embedded Sections)

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

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



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:

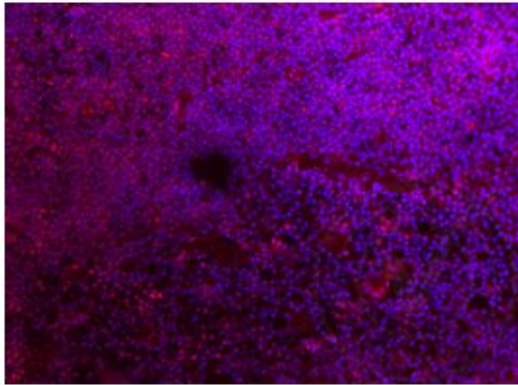
- Frozen, OCT embedded tissues were cut 5 μ m and mounted on positive charged slides.
- Sections were air dried for 30 min prior to fix in 10% neutral buffered formalin for 10 min.
- Fixed slides were rinsed three times in PBS for 5 min each at RT.
- Sections were blocked in 1 X PBS / 3% donkey serum / 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

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 Panoramic SCAN 150.

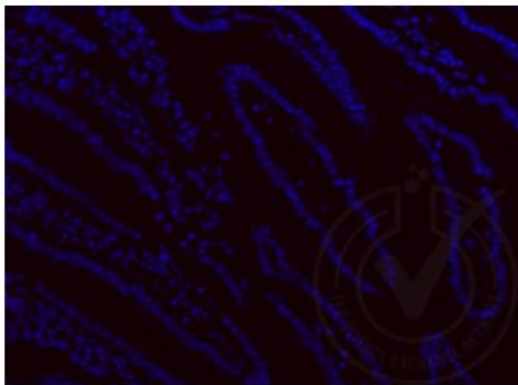
Experimental Notes: None

Images for Validation report #029613



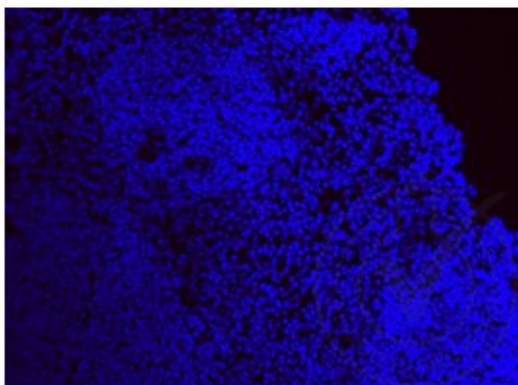
Validation image no. 1 for anti-Ionized Calcium-binding Adapter Molecule 1 (IBA1) (AA 51-147) antibody (ABIN685477)

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



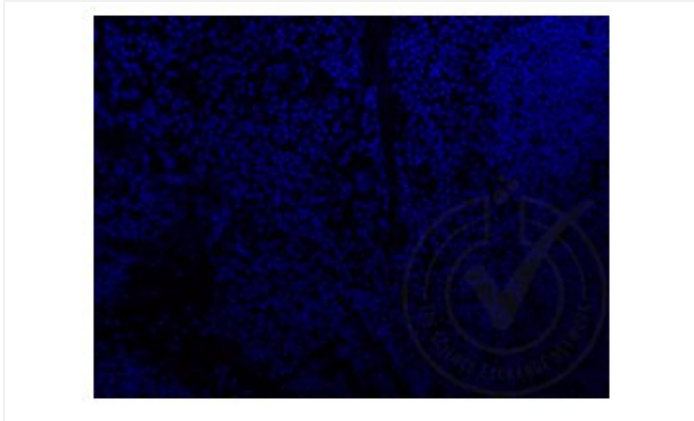
Validation image no. 2 for anti-Ionized Calcium-binding Adapter Molecule 1 (IBA1) (AA 51-147) antibody (ABIN685477)

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



Validation image no. 3 for anti-Ionized Calcium-binding Adapter Molecule 1 (IBA1) (AA 51-147) antibody (ABIN685477)

Figure 3: Isotype control staining on mouse spleen (red), counterstained with DAPI (blue).



Validation image no. 4 for anti-Ionized Calcium-binding Adapter Molecule 1 (IBA1) (AA 51-147) antibody (ABIN685477)

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