

Product Datasheet

AIF-1/Iba1 Antibody NBP2-16908

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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Publications: 7

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Updated 9/25/2025 v.20.1

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NBP2-16908

AIF-1/Iba1 Antibody

Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.025% Proclin 300
Isotype	IgG
Purity	Antigen Affinity-purified
Buffer	PBS, 1% BSA, 20% Glycerol
Target Molecular Weight	17 kDa

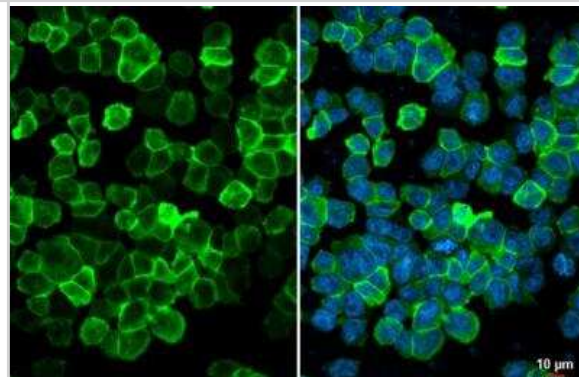
Product Description	
Description	Novus Biologicals Rabbit AIF-1/Iba1 Antibody (NBP2-16908) is a polyclonal antibody validated for use in IHC, WB, Flow, ICC/IF and IP. Anti-AIF-1/Iba1 Antibody: Cited in 7 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	199
Gene Symbol	AIF1
Species	Human, Mouse, Rat
Reactivity Notes	Bovine (88%).
Marker	pan-Microglia Marker
Immunogen	Recombinant protein encompassing a sequence within the center region of human AIF-1/Iba1. The exact sequence is proprietary.

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation
Recommended Dilutions	Western Blot 1:500-1:10000, Flow Cytometry 1:50-1:200, Immunohistochemistry 1:100-1:1000, Immunocytochemistry/ Immunofluorescence 1:100-1:1000, Immunoprecipitation 1:100-1:500, Immunohistochemistry-Paraffin 1:100-1:1000, Immunohistochemistry-Frozen 1:100-1:1000

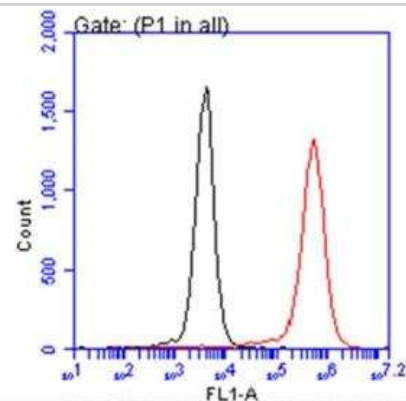


Images

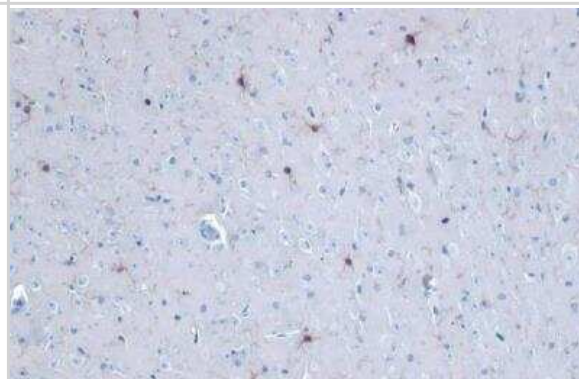
Immunocytochemistry/Immunofluorescence: AIF-1/Iba1 Antibody [NBP2-16908] - THP-1 cells were fixed in 4% paraformaldehyde at RT for 15 min. Green: Iba1 stained by Iba1 antibody diluted at 1:500. Blue: Fluoroshield with DAPI .



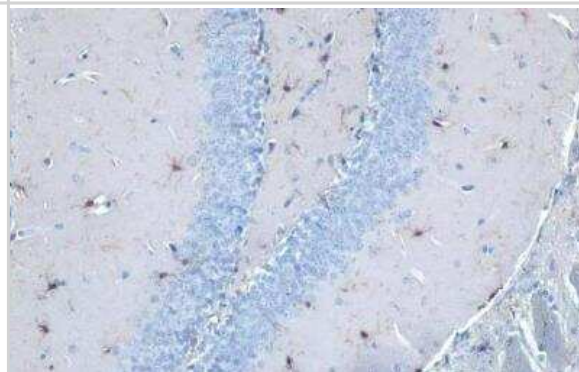
Flow Cytometry: AIF-1/Iba1 Antibody [NBP2-16908] - THP-1 cell. Black: Unlabelled sample was used as a control. Red: AIF-1:Iba1 Antibody dilution: 1:50. Acquisition of 20,000 events were collected using a Dylight 488-conjugated secondary antibody for FACS analysis.



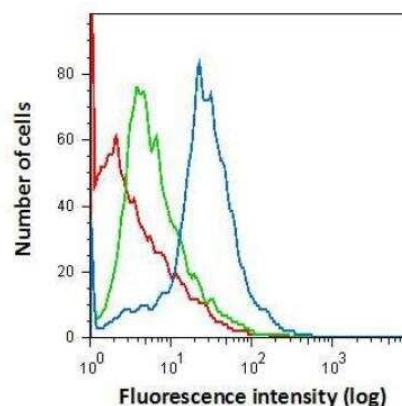
Immunohistochemistry-Paraffin: AIF-1/Iba1 Antibody [NBP2-16908] - Mouse brain. Iba1 stained by Iba1 antibody diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min.



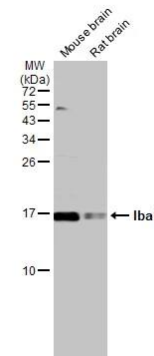
Immunohistochemistry-Paraffin: AIF-1/Iba1 Antibody [NBP2-16908] - Mouse brain. Iba1 stained by Iba1 antibody diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min.



Flow Cytometry: AIF-1/Iba1 Antibody [NBP2-16908] - Primary murine microglia cells, staining with AIF-1:Iba1 Antibody using 1.0 μ g per 4×10^5 cells. NBP2-16908 (blue), Rabbit IgG (green) Unstained (red).



Western Blot: AIF-1/Iba1 Antibody [NBP2-16908] - Various tissue extracts (50 μ g) were separated by 15% SDS-PAGE, and the membrane was blotted with AIF-1/Iba1 antibody (NBP2-16908) diluted at 1:500. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.

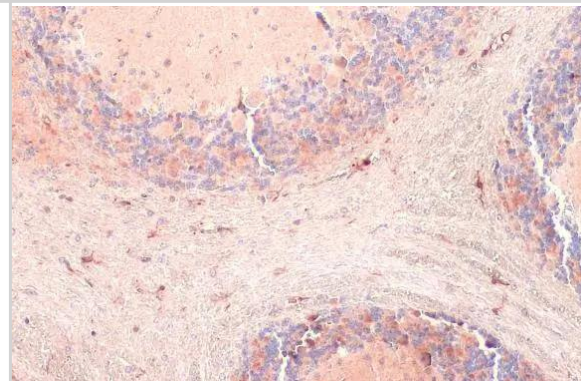


Iba1 antibody detects Iba1 protein at cell membrane and cytoplasm by immunohistochemical analysis.

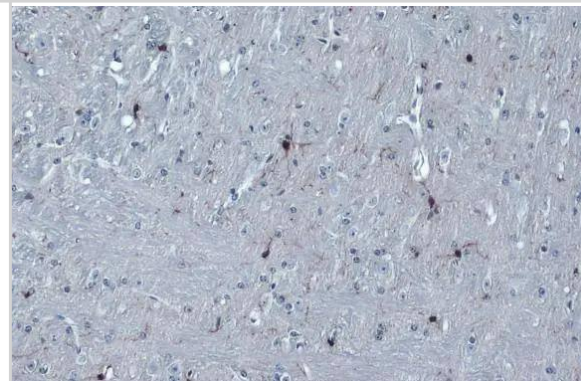
Sample: Paraffin-embedded mouse brain.

Iba1 stained by Iba1 antibody (NBP2-16908) diluted at 1:500.

Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



Iba1 antibody detects Iba1 protein at cell membrane and cytoplasm by immunohistochemical analysis. Sample: Paraffin-embedded mouse cerebellum. Iba1 stained by Iba1 antibody (NBP2-16908) diluted at 1:1000. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min

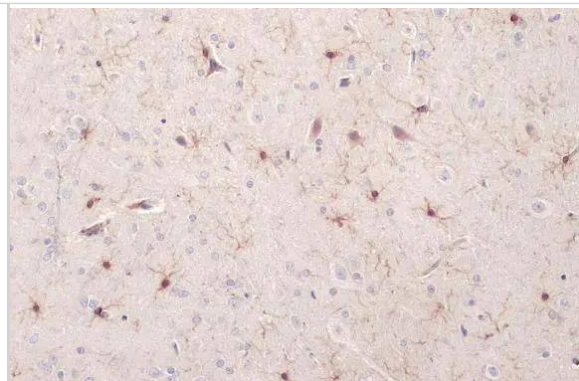


Iba1 antibody detects Iba1 protein at cell membrane and cytoplasm by immunohistochemical analysis.

Sample: Paraffin-embedded rat brain.

Iba1 stained by Iba1 antibody (NBP2-16908) diluted at 1:500.

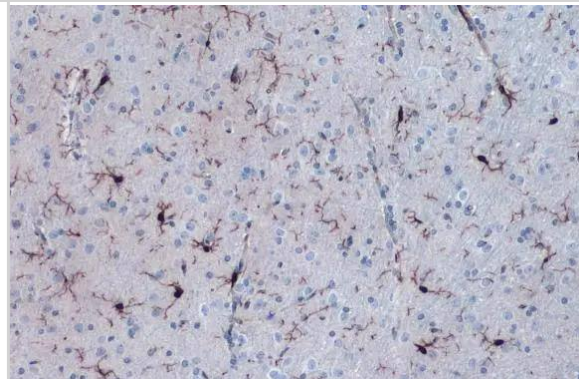
Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



Iba1 antibody detects Iba1 protein at cell membrane and cytoplasm by immunohistochemical analysis. Sample: Paraffin-embedded rat cerebellum.

Iba1 stained by Iba1 antibody (NBP2-16908) diluted at 1:1000.

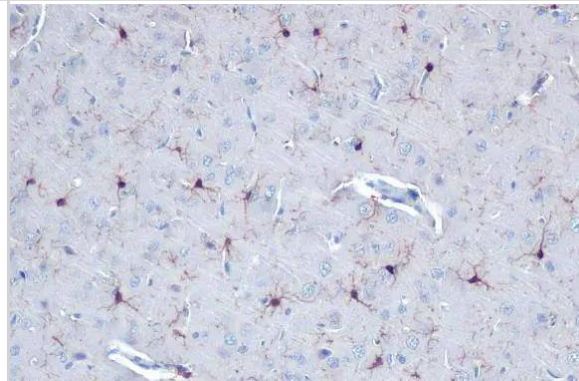
Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



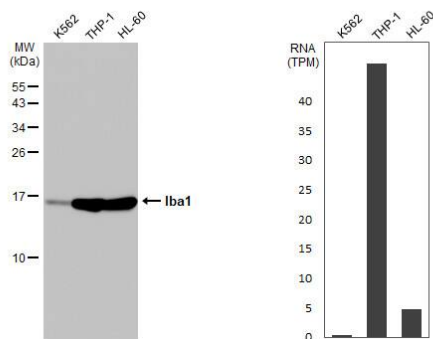
Iba1 antibody detects Iba1 protein at cell membrane and cytoplasm by immunohistochemical analysis. Sample: Paraffin-embedded rat brain.

Iba1 stained by Iba1 antibody (NBP2-16908) diluted at 1:500.

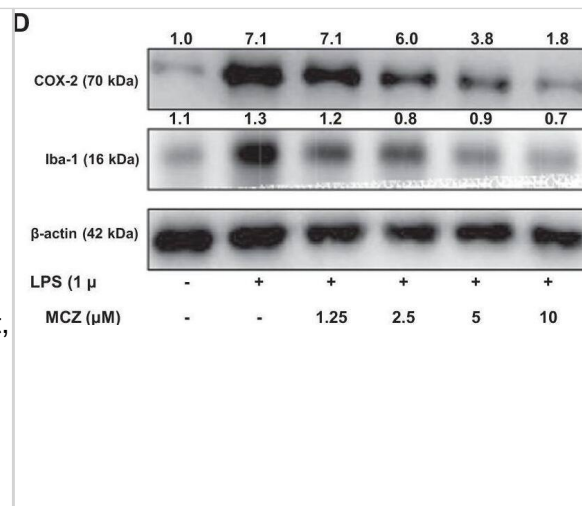
Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



Various whole cell extracts (30 ug) were separated by 15% SDS-PAGE, and the membrane was blotted with Iba1 antibody (NBP2-16908) diluted at 1:5000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody. Corresponding RNA expression data for the same cell lines are based on Human Protein Atlas program.



Miconazole effects on NO generation and inflammation in LPS-treated cultured astrocytes and microglial BV2 cells. The NO generation levels were measured in 24-h LPS-treated (1 $\mu\text{g}/\text{mL}$) cultured astrocytes (a) and microglial BV2 cells (b) pretreated with MCZ (1.25, 2.5, 5, and 10 μM) for 1 h. COX-2, GFAP, and Iba-1 proteins were detected by western blotting using specific antibodies in cultured astrocytes (c) and microglial BV2 cells (d). β -actin levels were measured to confirm equal protein loading. All experiments were performed three times with duplicate. The values on the western blot bands represent the arbitrary density measured by ImageJ. Significant difference from the control group (t-test, $p < 0.05$). #Significant difference from the LPS-treated group ($p < 0.05$). *Significant difference from the MCZ-treated group ($p < 0.05$). Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/32796824>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Pasula MB, Sylvester PW, Briski KP., et Al. Sex-dimorphic glucose transporter-2 regulation of cAMP-protein kinase A (PKA) C-alpha pathway activity and phosphorylation in rat hypothalamic primary astrocyte cultures Eur J Neurosci 2024-11-26 [PMID: 39592424]

An SSA, Shim KH, Kang S Et al. The potential anti-amyloidogenic candidate, SPA1413, for Alzheimer's disease British journal of pharmacology 2021-10-05 [PMID: 34610141]

Yeo IJ, Yun J, Son DJ et al. Antifungal drug miconazole ameliorated memory deficits in a mouse model of LPS-induced memory loss through targeting iNOS Cell Death Dis 2020-08-14 [PMID: 32796824] (WB, Mouse)

Gimenes AD, Andrade BFD, Pinotti JVP et al. Annexin A1-derived peptide Ac2-26 in a pilocarpine-induced status epilepticus model: anti-inflammatory and neuroprotective effects J Neuroinflammation. 2019-02-11 [PMID: 30755225] (WB, Rat)

Sun X, Bai Y, Zhai H et al. Devising micro/nano-architectures in multi-channel nerve conduits towards a pro-regenerative matrix for the repair of spinal cord injury Acta Biomater 2018-12-23 [PMID: 30586646] (ICC/IF, Rat)

Schultz Mk, Gentzel R, Usenovic M et al. Pharmacogenetic neuronal stimulation increases human tau pathology and trans-synaptic spread of tau to distal brain regions in mice. Neurobiol. Dis. 2018-07-07 [PMID: 30049665] (IF/IHC, Mouse)

Chisari M, Scuderi A, Ciranna L et al. Purinergic P2Y1 Receptors Control Rapid Expression of Plasma Membrane Processes in Hippocampal Astrocytes. Mol. Neurobiol. 2016-06-18 [PMID: 27318677] (ICC/IF, Rat)



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Products Related to NBP2-16908

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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