

# 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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**NBP2-16908**

## AIF-1/Iba1 Antibody

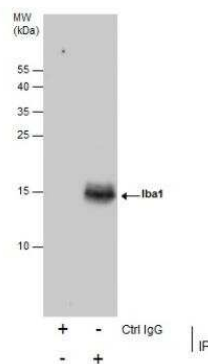
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.025% Proclin 300
Isotype	IgG
Purity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

Product Description	
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.

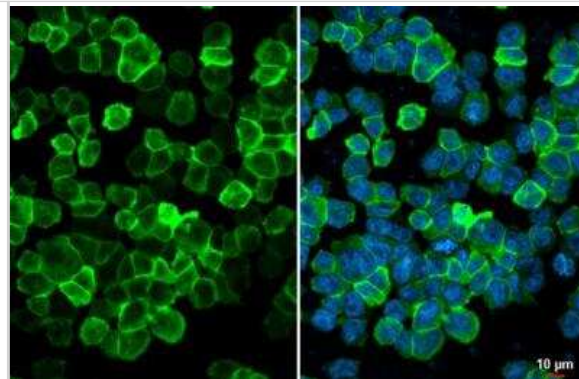
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:500-1:10000, Flow Cytometry 1:50-1:200, Immunohistochemistry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

Immunoprecipitation: AIF-1/Iba1 Antibody [NBP2-16908] - Immunoprecipitation of AIF-1/Iba1 protein from K562 whole cell extracts using 5ug of AIF-1/Iba1 Antibody Western blot analysis was performed using Iba1 antibody EasyBlot anti-Rabbit IgG was used as a secondary reagent.



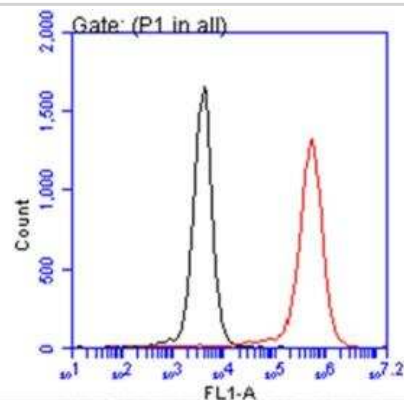
Immunocytochemistry/Immunofluorescence: AIF-1/Iba1 Antibody [NBP2-16908] - THP-1 cells were fixed in 4% paraformaldehyde at RT for 15 min. Green: Iba1 stained by Iba1 antibody diluted at 1:500. Blue: Fluoroshield with DAPI .



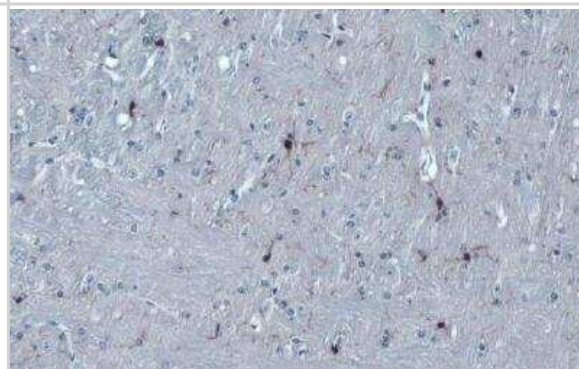
Immunohistochemistry-Paraffin: AIF-1/Iba1 Antibody [NBP2-16908] - Rat brain. Iba1 stained by Iba1 antibody diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min.



Flow Cytometry: AIF-1/Iba1 Antibody [NBP2-16908] - 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 cerebellum. Iba1 stained by Iba1 antibody diluted at 1:1000. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min.



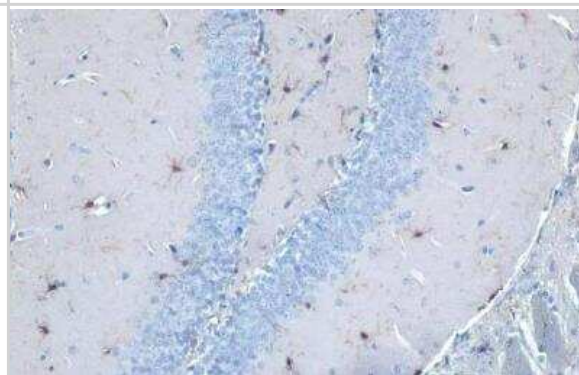
Immunohistochemistry-Paraffin: AIF-1/Iba1 Antibody [NBP2-16908] - Rat cerebellum. Iba1 stained by Iba1 antibody diluted at 1:1000. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min.



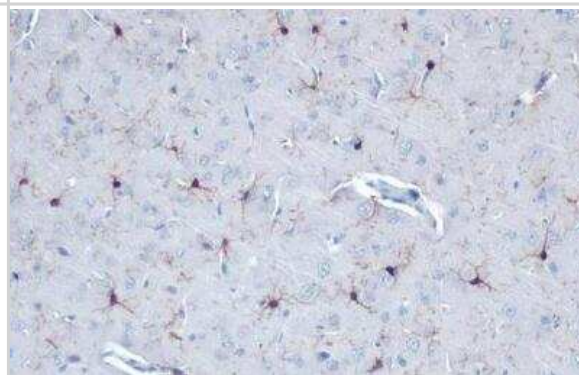
Immunohistochemistry-Paraffin: AIF-1/Iba1 Antibody [NBP2-16908] - Mouse brain. Iba1 stained by Iba1 antibody diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min.



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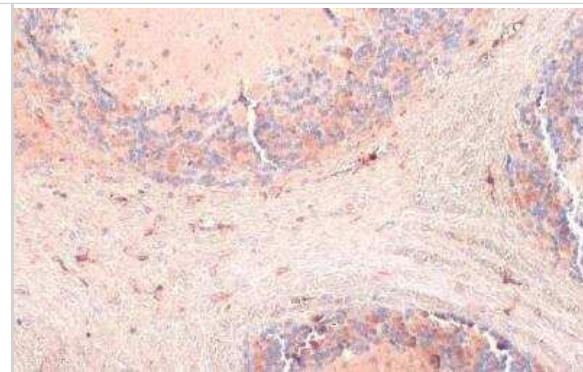


Immunohistochemistry-Paraffin: AIF-1/Iba1 Antibody [NBP2-16908] - Rat brain. Iba1 stained by Iba1 antibody diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min.

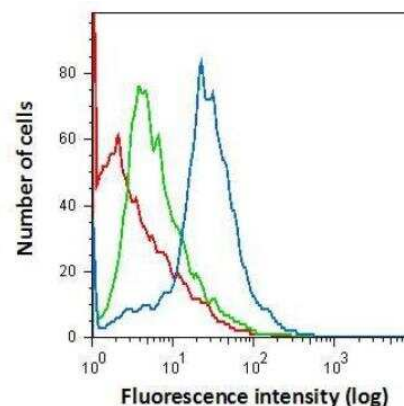




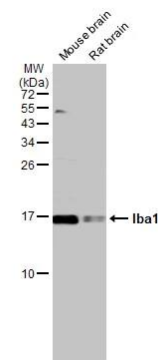
Immunohistochemistry-Paraffin: AIF-1/Iba1 Antibody [NBP2-16908] - Mouse brain. Iba1 stained by Iba1 antibody diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min.



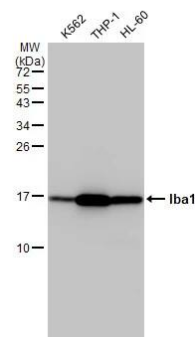
Flow Cytometry: AIF-1/Iba1 Antibody [NBP2-16908] - Primary murine microglia cells, staining with AIF-1:Iba1 Antibody using 1.0 ug per  $4 \times 10^5$  cells. NBP2-16908 (blue), Rabbit IgG (green) Unstained (red).



Western Blot: AIF-1/Iba1 Antibody [NBP2-16908] - Various tissue extracts (50 ug) 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.



Western Blot: AIF-1/Iba1 Antibody [NBP2-16908] - Various whole cell extracts (30 ug) were separated by 15% SDS-PAGE, and the membrane was blotted with AIF-1/Iba1 antibody (NBP2-16908) diluted at 1:5000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



## 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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General: novus@novusbio.com

### **Products Related to NBP2-16908**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP1-51074-0.1mg	Recombinant Human AIF-1/Iba1 His Protein

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### **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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