Product Datasheet

AIF-1/Iba1 Antibody NBP2-19019

Unit Size: 100 ul

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



Reviews: 4 Publications: 30

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Updated 10/23/2024 v.20.1

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NBP2-19019

AIF-1/Iba1 Antibody

Product Information		
Unit Size	100 ul	
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	No Preservative	
Isotype	IgG	
Purity	Antigen Affinity-purified	
Buffer	PBS	
Target Molecular Weight	17 kDa	
Product Description		
Host	Rabbit	
Gene ID	199	
Gene Symbol	AIF1	
Species	Human, Mouse, Rat	
Marker	pan-Microglia Marker	
Immunogen	Carrier-protein conjugated synthetic peptide encompassing a sequence within the C-terminus region of human AIF-1/Iba1. The exact sequence is proprietary.	
Product Application Details		
Applications	Western Blot, Simple Western, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunohistochemistry Free-Floating	
Recommended Dilutions	Western Blot 1:500-1:10000, Simple Western Reported by an internal validation, Flow Cytometry 1:50-1:200, Immunohistochemistry 1:100-1000, Immunocytochemistry/ Immunofluorescence 1:100-1:1000, Immunohistochemistry-Paraffin 1:100-1:1000, Immunohistochemistry-Frozen 1:100-1:1000, Immunohistochemistry Free-Floating Assay dependent	
Application Notes	Simple Western Separated by Size, antibody dilution of 1:50, detects a band at 25 kDa.	

Images

Western Blot: AIF-1/Iba1 Antibody [NBP2-19019] - Various 50 ug tissue extracts (Molecular weight: 16.7 KDa) were separated by 15% SDS-PAGE, and the membrane was blotted with AIF-1/Iba1 Antibody diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody (NBP2-19301) was used to detect the primary antibody.











Immunohistochemistry-Frozen: AIF-1/Iba1 Antibody [NBP2-19019] - Frozen sectioned E13.5 Rat brain. Green: AIF-1/Iba1 protein stained by AIF-1/Iba1 Antibody diluted at 1:250. Red: beta Tubulin 3/ TUJ1, a mature neuron marker, stained by beta Tubulin 3/ TUJ1 antibody [11710] (NBP2-43559) diluted at 1:500. Blue: Fluoroshield with DAPI.	
Immunohistochemistry-Paraffin: AIF-1/Iba1 Antibody [NBP2-19019] - Mouse cerebellum stained by AIF-1/Iba1 Antibody diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min.	
Immunohistochemistry-Paraffin: AIF-1/Iba1 Antibody [NBP2-19019] - Rat brain stained by AIF-1/Iba1 Antibody diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min.	
Immunohistochemistry-Paraffin: AIF-1/Iba1 Antibody [NBP2-19019] - Rat cerebellum stained by AIF-1/Iba1 Antibody diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min.	





Immunohistochemistry-Paraffin: AIF-1/Iba1 Antibody [NBP2-19019] - Rat hind brain. Iba1 antibody dilution: 1:500. Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min

Immunohistochemistry-Paraffin: AIF-1/Iba1 Antibody [NBP2-19019] -Analysis of paraffin-embedded human hepatoma, using at 1:500 dilution.lba1 antibody detects AIF-1/lba1 in the cytosol of Kupffer cell in human hepatoma by immunohistochemical analysis.

Immunohistochemistry: AIF-1/Iba1 Antibody [NBP2-19019] - LCN2 mainly expressed on neurons. a Representative immunofluorescence images of LCN2 (green) and AIF-1/lba1 (red) staining in sections of the hippocampus after surgery. Long scale bar, 600 um; short scale bar, 25 um. Image collected and cropped by CiteAb from the following publication (pubmed.ncbi.nlm.nih.gov/35413913) licensed under a CC-BY license.

Immunocytochemistry/ Immunofluorescence: AIF-1/Iba1 Antibody [NBP2 LCN2 LCN2

-19019] - LCN2 mainly expressed on neurons. a Representative immunofluorescence images of LCN2 (green), GFAP (red), NeuN (red) & Ibal (red) staining in sections of the hippocampus after surgery. Long scale bar, 600 μ m; short scale bar, 25 μ m. b Percentage quantification of $_{LCN2}$ LCN2 positive cells (n = 3 mice/group). c Cartoon depicting MACS sorting procedures for isolating CD11b+ & CD11b - cells. d Relative expression of cx3cr1 in CD11b + & CD11b - cells after sorting from all samples. d Relative expression level of Lcn2 mRNA in CD11b + & CD11b - cells from hippocampus 6 h after surgery. e Relative expression level of IL-6 mRNA in CD11b + cells. Data are represented as mean ± SEM. **** P < 0.0001 Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/35413913), licensed under a CC-BY

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LCN2



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Immunohistochemistry-Paraffin: AIF-1/Iba1 Antibody [NBP2-19019] -AIF-1/Iba1 antibody detects AIF-1/Iba1 protein by immunohistochemical analysis.Sample: Paraffin-embedded rat tissues.AIF-1/lba1 stained by AIF-1/Iba1 antibody (NBP2-19019) diluted at 1:100.Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



Immunocytochemistry/ Immunofluorescence: AIF-1/Iba1 Antibody [NBP2] -19019] - AIF-1/Iba1 antibody detects AIF-1/Iba1 protein at cell membrane by immunofluorescent analysis.Sample: THP-1 cells were fixed in 4% paraformaldehyde at RT for 15 min.Green: AIF-1/Iba1 stained by AIF-1/Iba1 antibody (NBP2-19019) diluted at 1:500.Blue: Fluoroshield with DAPI.

Immunohistochemistry-Paraffin: AIF-1/Iba1 Antibody [NBP2-19019] -AIF-1/Iba1 antibody detects AIF-1/Iba1 protein at cell membrane and cytoplasm by immunohistochemical analysis.Sample: Paraffinembedded mouse brain.AIF-1/lba1 stained by AIF-1/lba1 antibody (NBP2-19019) diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min

Western Blot: AIF-1/Iba1 Antibody [NBP2-19019] - Various whole cell extracts (30 ug) were separated by 15% SDS-PAGE, and the membrane was blotted with Iba1 antibody diluted at 1:5000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody. Correspo

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Publications

Ma, N;Li, G;Fu, X; Protective role of activating transcription factor 3 against neuronal damage in rats with cerebral ischemia Brain and behavior [PMID: 35263513]

Katja Niesel, Michael Schulz, Julian Anthes, Tijna Alekseeva, Jadranka Macas, Anna Salamero Boix, Aylin Möckl, Timm Oberwahrenbrock, Marco Lolies, Stefan Stein, Karl H Plate, Yvonne Reiss, Franz Rödel, Lisa Sevenich The immune suppressive microenvironment affects efficacy of radio immunotherapy in brain metastasis EMBO Molecular Medicine 2021-03-23 [PMID: 33755340]

Hong J, Adam RJ, Gao L et al. Macrophage activation in stellate ganglia contributes to lung injury-induced arrhythmogenesis in male rats Acta physiologica (Oxford, England) 2021-04-05 [PMID: 33817984]

Tylek K, Trojan E, Le?kiewicz M et al. Microglia Depletion Attenuates the Pro-Resolving Activity of the Formyl Peptide Receptor 2 Agonist AMS21 Related to Inhibition of Inflammasome NLRP3 Signalling Pathway: A Study of Organotypic Hippocampal Cultures Cells 2023-11-03 [PMID: 37947648] (WB, Rat)

Madi A, Sheinin R, Salomon K et al. interFLOW: maximum flow framework for the identification of factors mediating the signaling convergence of multiple receptors Research Square 2023-10-31 (IHC, Mouse)

Tsujikawa S, DeMeulenaere KE, Centeno MV et al. Regulation of neuropathic pain by microglial Orai1 channels Science Advances 2023-01-27 [PMID: 36706180] (Block/Neutralize)

Henriques A, Rouvi re L, Giorla E et al. Alpha-Synuclein: The Spark That Flames Dopaminergic Neurons, In Vitro and In Vivo Evidence International Journal of Molecular Sciences 2022-08-30 [PMID: 36077253] (Immunohistochemistry)

Williams EP, Xue Y, Lee J et al. Deep spatial profiling of Venezuelan equine encephalitis virus reveals increased genetic diversity amidst neuroinflammation and cell death during brain infection Journal of Virology 2023-08-31 [PMID: 37560924]

Pawlik K, Ciapa?a K, Ciechanowska A et al. Pharmacological Evidence of the Important Roles of CCR1 and CCR3 and Their Endogenous Ligands CCL2/7/8 in Hypersensitivity Based on a Murine Model of Neuropathic Pain Cells 2022-12-26 [PMID: 36611891]

Ciechanowska A, Rojewska E, Piotrowska A et al. New insights into the analgesic properties of the XCL1/XCR1 and XCL1/ITGA9 axes modulation under neuropathic pain conditions - evidence from animal studies Frontiers in immunology 2022-12-22 [PMID: 36618360] (WB, Mouse)

Abhishek T, Shih-Ying W, Sambad S et al. Exosomal miR-4466 from nicotine-activated neutrophils promotes tumor cell stemness and metabolism in lung cancer metastasis Oncogene. 2022-04-23 [PMID: 35461327] (Immunohistochemistry, Human)

Merlo S, Caruso GI, Korde DS et al. Melatonin Activates Anti-Inflammatory Features in Microglia in a Multicellular Context: Evidence from Organotypic Brain Slices and HMC3 Cells Biomolecules 2023-02-16 [PMID: 36830742] (WB, IHC, Mouse)

Details: Dilution used in IHC 1:700

More publications at http://www.novusbio.com/NBP2-19019







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Products Related to NBP2-19019

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

Limitations

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