

Product Datasheet

AIF-1/Iba1 Antibody NB100-2833

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

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NB100-2833

AIF-1/Iba1 Antibody

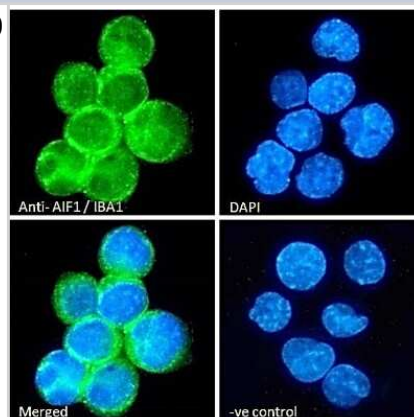
Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA
Target Molecular Weight	16.7 kDa

Product Description	
Host	Goat
Gene ID	199
Gene Symbol	AIF1
Species	Human, Mouse
Reactivity Notes	Use in Mouse reported in scientific literature (PMID:31560162).
Marker	pan-Microglia Marker
Specificity/Sensitivity	This AIF-1/Iba1 Antibody is expected to recognize isoform 3 (NP_001614.3) only.
Immunogen	This AIF-1/Iba1 Antibody was developed against a peptide with sequence C-NKQFLDDPKYSSDED corresponding to internal region according to NP_001614.3.

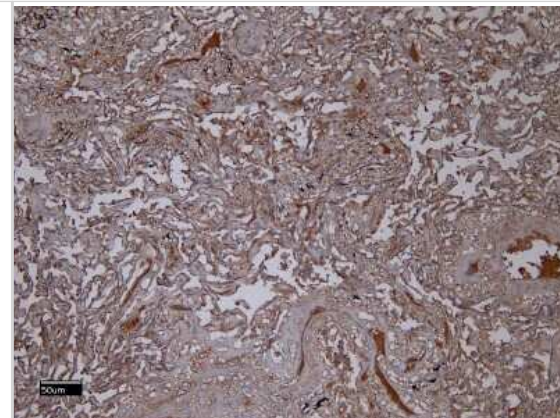
Product Application Details	
Applications	Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Peptide ELISA
Recommended Dilutions	Flow Cytometry 10 ug/mL, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 10 ug/mL, Immunohistochemistry-Paraffin 6 ug/ml, Peptide ELISA Detection limit 1:128000
Application Notes	Use in Immunohistochemistry reported in scientific literature (PMID:31560162).

Images

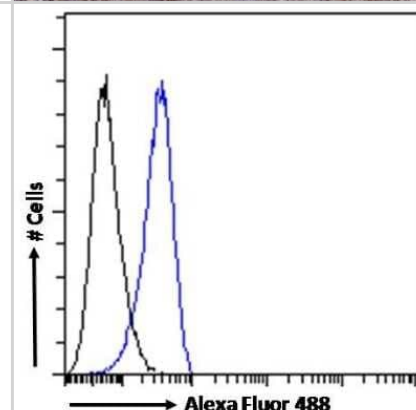
Immunocytochemistry/Immunofluorescence: AIF-1/Iba1 Antibody [NB100-2833] - Immunofluorescence analysis of paraformaldehyde fixed U937 cells immobilized on Shi-fix coverslip, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



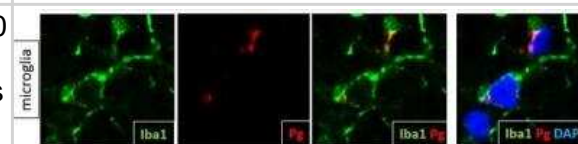
Immunohistochemistry-Paraffin: AIF-1/Iba1 Antibody [NB100-2833] - Staining (6ug/ml) of paraffin embedded Human Lung. Heat induced antigen retrieval with citrate buffer pH 6, HRP-Staining.



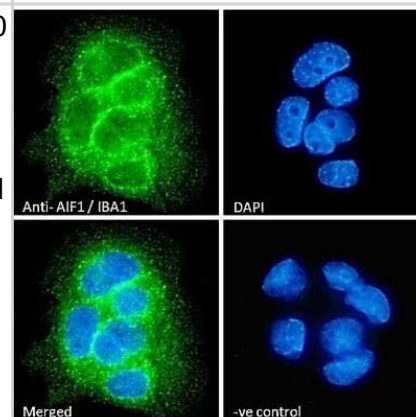
Flow Cytometry: AIF-1/Iba1 Antibody [NB100-2833] - Flow cytometric analysis of paraformaldehyde fixed K562 cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.



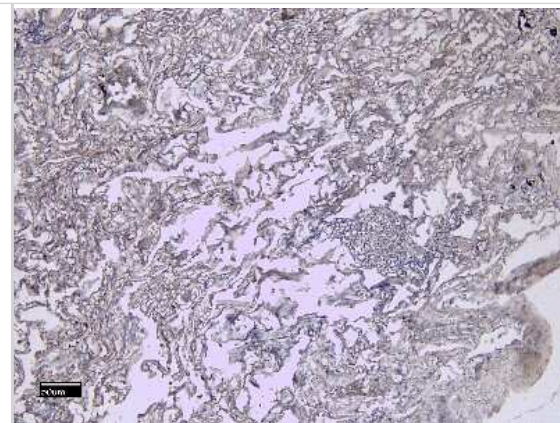
Immunocytochemistry/Immunofluorescence: AIF-1/Iba1 Antibody [NB100-2833] - Pg/gingipain is present intracellularly in astrocytes, microglia and neurons in the hippocampus of experimental mice. Green: astrocytes (top panels), microglia (middle panels), and neurons (bottom panels). Red: Pg/gingipain. Blue: DAPI. Representative of N = 4 (GFAP), 3 (Iba1) and 4 (NeuN) experimental mice. Image collected and cropped by CiteAb from the following publication (<https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0204941>), licensed under a CC-BY license.



Immunocytochemistry/Immunofluorescence: AIF-1/Iba1 Antibody [NB100-2833] - Immunofluorescence analysis of paraformaldehyde fixed CaCo-2 cells immobilized on Shi-fix coverslip, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



Immunohistochemistry-Paraffin: AIF-1/Iba1 Antibody [NB100-2833] - Negative Control showing staining of paraffin embedded Human Lung, with no primary antibody.



Publications

Awad-Igbaria Y, Ferreira N, Keadan A et al. HBO treatment enhances motor function and modulates pain development after sciatic nerve injury via protection the mitochondrial function Journal of Translational Medicine 2023 -08-15 [PMID: 37582750]

Kawai M, Imaizumi K, Ishikawa M Et al. Long-term selective stimulation of transplanted neural stem/progenitor cells for spinal cord injury improves locomotor function Cell reports 2021-11-23 [PMID: 34818559] (IHC-P, Mouse)

Velazquez R, Ferreira E et al. Lifelong choline supplementation ameliorates Alzheimer's disease pathology and associated cognitive deficits by attenuating microglia activation. Aging Cell 2019-01-12 [PMID: 31560162] (IF/IHC, Mouse)

Guyot AC, Leuxe C, Disdier C et al. A Small Compound Targeting Prohibitin with Potential Interest for Cognitive Deficit Rescue in Aging mice and Tau Pathology Treatment Sci Rep 2020-01-24 [PMID: 31980673] (IHC-Fr)

Neckles VN, Morton MC, Holmberg JC et al. A transgenic inducible GFP extracellular-vesicle reporter (TIGER) mouse illuminates neonatal cortical astrocytes as a source of immunomodulatory extracellular vesicles Sci Rep 2019-02-28 [PMID: 30816224] (IF/IHC, Mouse)

Ilievski V, Zuchowska Pk, Green SJ et al. Chronic oral application of a periodontal pathogen results in brain inflammation, neurodegeneration and amyloid beta production in wild type mice. PLoS ONE. 2018-10-03 [PMID: 30281647] (IF/IHC, Mouse)

Morton MC, Neckles VN, Seluzicki CM et al. Neonatal Subventricular Zone Neural Stem Cells Release Extracellular Vesicles that Act as a Microglial Morphogen. Cell Rep 2018-04-03 [PMID: 29617675] (IF/IHC, Mouse)

Arsenault D, Coulombe K, Zhu A et al. Loss of Metabotropic Glutamate Receptor 5 Function on Peripheral Benzodiazepine Receptor in Mice Prenatally Exposed to LPS. PLoS ONE. 2015-11-05 [PMID: 26536027] (WB, Mouse)

Yang ZF, Ho DW, Lau CK et al. Allograft inflammatory factor-1 (AIF-1) is crucial for the survival and pro-inflammatory activity of macrophages. Int Immunol 2005-11-01 [PMID: 16157606]



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Products Related to NB100-2833

NBL1-07408	AIF-1/Iba1 Overexpression Lysate
HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat 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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