Product Datasheet

AIF-1/Iba1 Antibody
NB100-1028

Unit Size: 0.1 mg
Store at -20C. Avoid freeze-thaw cycles.

Reviews: 12  Publications: 72

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Updated 3/4/2019 v.20.1

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NB100-1028
AIF-1/Iba1 Antibody

Product Information

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit Size</td>
<td>0.1 mg</td>
</tr>
<tr>
<td>Concentration</td>
<td>0.5 mg/ml</td>
</tr>
<tr>
<td>Storage</td>
<td>Store at -20C. Avoid freeze-thaw cycles.</td>
</tr>
<tr>
<td>Clonality</td>
<td>Polyclonal</td>
</tr>
<tr>
<td>Preservative</td>
<td>0.02% Sodium Azide</td>
</tr>
<tr>
<td>Isotype</td>
<td>IgG</td>
</tr>
<tr>
<td>Purity</td>
<td>Immunogen affinity purified</td>
</tr>
<tr>
<td>Buffer</td>
<td>Tris (pH 7.3), 0.5% BSA</td>
</tr>
<tr>
<td>Target Molecular Weight</td>
<td>17 kDa</td>
</tr>
</tbody>
</table>

Product Description

Host: Goat
Gene ID: 199
Gene Symbol: AIF1
Species: Human, Mouse, Rat, Porcine, Canine

Reactivity Notes: Mouse reactivity reported in scientific literature (PMID: 26490872). Canine reactivity per customer review.
Marker: pan-Microglia Marker

Specificity/Sensitivity: This antibody is expected to recognize isoform 1 (NP_116573.1) and isoform 3 (NP_001614.3). AIF1 / IBA1 is thought to be involved in negative regulation of growth of vascular smooth muscle cells, which contributes to the anti-inflammatory response to vessel wall trauma.

Immunogen: Peptide with sequence C-TGPPAKKAISELP, from the C Terminus of the protein sequence according to NP_116573.1; NP_001614.3.

Product Application Details

Applications: Western Blot, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Peptide ELISA, Immunohistochemistry Free-Floating, Immunohistochemistry Whole-Mount

Recommended Dilutions: Western Blot 1 - 3 ug/mL, Immunohistochemistry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry-Paraffin, Immunohistochemistry-Frozen, Peptide ELISA Detection Limit 1:128000, Immunohistochemistry Free-Floating, Immunohistochemistry Whole-Mount

Application Notes: WB: ~17 kDa band observed in Human Brain (Frontal Cortex) and Rat Brain lysates (calculated MW of 16.7kDa according to Human NP_001614.3 and 16.8kDa according to Rat NP_058892.1). IHC: Use reported in scientific literature and customer reviews. However, variation between lots has been observed. ICC: Use reported in scientific literature (PMID: 26335282). Use in Immunohistochemistry, Western blot, Immunohistochemistry frozen, Immunohistochemistry-free floating, Immunohistochemistry-paraffin, and Immunocytochemistry/immunofluorescence reported in multiple pieces of scientific literature. Use in Immunohistochemistry-Whole mount reported in scientific literature (PMID: 26676316). Please contact technical support if you have any questions.
Western Blot: AIF-1/Iba1 Antibody [NB100-1028] - Staining of Human Frontal Cortex (A) and (0.3ug/ml) Rat Brain (B) lysate (35ug protein in RIPA buffer). Detected by chemiluminescence.

Immunohistochemistry: AIF-1/Iba1 Antibody [NB100-1028] - Staining in canine optic nerve.

Immunohistochemistry-Frozen: AIF-1/Iba1 Antibody [NB100-1028] - Immunoreacitity in a mouse spinal cord after focal injection of lysolecithin into the ventral column white matter. Image supplied by a certified customer review.

Immunohistochemistry-Frozen: AIF-1/Iba1 Antibody [NB100-1028] - Mouse spinal cord microglia staining in frozen sections. Image supplied by a certified customer review.

Immunohistochemistry-Frozen: AIF-1/Iba1 Antibody [NB100-1028] - Staining in rat hippocampus at 40x. Image supplied by a certified customer review.

Immunohistochemistry-Paraffin: AIF-1/Iba1 Antibody [NB100-1028] - Staining in mouse brain. Image supplied by a certified customer review.

Immunohistochemistry: AIF-1/Iba1 Antibody [NB100-1028] - Staining in Mouse brain. Image supplied by a certified customer review.


Sommer D, Corstjens I, Sanchez S et al. ADAM17-deficiency on microglia but not on macrophages promotes phagocytosis and functional recovery after spinal cord injury Brain, Behavior, and Immunity Mar 1 2019 12:00AM [PMID: 30851378] (ICC/IF, Mouse)

Bellver-Landete V, Bretheau F, Mailhot B et al. Microglia are an essential component of the neuroprotective scar that forms after spinal cord injury Nat Commun Jan 31 2019 12:00AM [PMID: 30705270] (ICC/IF, Mouse)


Sprenkle NT, Lahiri A, Simpkins JW, Meares GP. Endoplasmic reticulum stress is transmissible in vitro between cells of the central nervous system J. Neurochem. Dec 6 2018 12:00AM [PMID: 30520047] (WB, Mouse)


More publications at http://www.novusbio.com/NB100-1028
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.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

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