Product Datasheet

AIF-1/Iba1 Antibody
NB100-1028

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

Reviews: 8  Publications: 46

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Updated 5/24/2017 v.20.1

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**Product Information**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</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 -20°C. 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>Purity</td>
<td>Immunogen affinity purified</td>
</tr>
<tr>
<td>Buffer</td>
<td>0.5 mg/ml Tris (pH 7.3) and 0.5% BSA</td>
</tr>
<tr>
<td>Target Molecular Weight</td>
<td>17 kDa</td>
</tr>
</tbody>
</table>

**Product Description**

<table>
<thead>
<tr>
<th>Host</th>
<th>Goat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gene ID</td>
<td>199</td>
</tr>
<tr>
<td>Gene Symbol</td>
<td>AIF1</td>
</tr>
<tr>
<td>Species</td>
<td>Human, Mouse, Rat</td>
</tr>
<tr>
<td>Reactivity Notes</td>
<td>Mouse reactivity reported in scientific literature (PMID: 26490872). Predicted cross-reactivity based on sequence identity: Porcine</td>
</tr>
<tr>
<td>Marker</td>
<td>pan-Microglia Marker</td>
</tr>
</tbody>
</table>

**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 corresponding to C-Terminus according to NP_001614.3.

**Product Application Details**

**Applications**

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

**Recommended Dilutions**

Western Blot 0.2-1ug/ml, Immunohistochemistry 1:10-1:500, Immunocytochemistry/Immunofluorescence 1:10 - 1:500, Immunohistochemistry-Paraffin 2-4ug/ml, Immunohistochemistry-Frozen 1:10-1:500, Peptide ELISA Detection Limit 1:32000, Immunohistochemistry Free-Floating, Immunohistochemistry Whole-Mount, Immunocytochemistry

**Application Notes**

Western blot: Approx 16kDa band observed in Rat Brain lysates (calculated MW of 16.7kDa according to NP_001614.3). IHC: In paraffin embedded Mouse Brain shows distinct staining of astrocytes. Data obtained from a previous batch (different goat).
Immunohistochemistry-Paraffin: AIF-1/Iba1 Antibody [NB100-1028] - Staining of paraffin embedded Human Spleen. Steamed antigen retrieval with citrate buffer pH 6, AP-staining. This data was obtained using a previous batch.

Immunohistochemistry-Paraffin: AIF-1/Iba1 Antibody [NB100-1028] - Staining of paraffin embedded Human Placenta. Steamed antigen retrieval with citrate buffer pH 6, AP-staining. This data was obtained using a previous batch.

Immunohistochemistry-Paraffin: AIF-1/Iba1 Antibody [NB100-1028] - Staining of paraffin embedded Human Lung. Steamed antigen retrieval with Tris/EDTA buffer pH 9, AP-staining. This data was obtained using a previous batch.

Western Blot: AIF-1/Iba1 Antibody [NB100-1028] - Staining of Human (A) and (0.5ug/ml) of Mouse (B) and Rat (C) Brain lysate (35ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.
Immunocytochemistry: AIF-1/Iba1 Antibody [NB100-1028] - Analysis of Iba1 in rat samples. Image courtesy of product review submitted by Tatyana Kanyshkova.

Immunohistochemistry-Paraffin: AIF-1/Iba1 Antibody [NB100-1028] - (2µg/ml) staining of paraffin embedded Mouse Brain. Steamed antigen retrieval with Tris/EDTA buffer pH 9, HRP-staining. This data is from a previous batch.

Immunocytochemistry: AIF-1/Iba1 Antibody [NB100-1028] - Analysis of Iba1 in rat brain and spinal cord. Image courtesy of anonymous customer product review.

Immunohistochemistry-Paraffin: AIF-1/Iba1 Antibody [NB100-1028] - Iba1 in mouse brain. Image from verified customer review.
Immunohistochemistry-Frozen: AIF-1/Iba1 Antibody [NB100-1028] - Staining of frozen rat hippocampal tissue with AIF-1 antibody. Image from verified customer review.

Publications


Kim ER, Lew PS, Spirkina A et al. Xenin-induced feeding suppression is not mediated through the activation of central extracellular signal-regulated kinase signaling in mice. Behav. Brain Res. Jun 15 2016 12:00AM [PMID: 27316340]

Kapoor K, Bhandare AM, Nedoboy PE et al. Dynamic changes in the relationship of microglia to cardiovascular neurons in response to increases and decreases in blood pressure. Neuroscience. May 4 2016 12:00AM [PMID: 27155147] (IHC-FrFl, Rat)

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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