Product Datasheet

S100A9 Antibody
NB110-89726

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

Publications: 19

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Updated 5/16/2023 v.20.1

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# Product Information

<table>
<thead>
<tr>
<th><strong>Unit Size</strong></th>
<th>0.1 ml</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Concentration</strong></td>
<td>This product is unpurified. The exact concentration of antibody is not quantifiable.</td>
</tr>
<tr>
<td><strong>Storage</strong></td>
<td>Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.</td>
</tr>
<tr>
<td><strong>Clonality</strong></td>
<td>Polyclonal</td>
</tr>
<tr>
<td><strong>Preservative</strong></td>
<td>0.1% Sodium Azide</td>
</tr>
<tr>
<td><strong>Isotype</strong></td>
<td>IgG</td>
</tr>
<tr>
<td><strong>Purity</strong></td>
<td>Unpurified</td>
</tr>
<tr>
<td><strong>Buffer</strong></td>
<td>Whole antisera</td>
</tr>
<tr>
<td><strong>Target Molecular Weight</strong></td>
<td>16 kDa</td>
</tr>
</tbody>
</table>

## Product Description

<table>
<thead>
<tr>
<th><strong>Host</strong></th>
<th>Rabbit</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gene ID</strong></td>
<td>6280</td>
</tr>
<tr>
<td><strong>Gene Symbol</strong></td>
<td>S100A9</td>
</tr>
<tr>
<td><strong>Species</strong></td>
<td>Human, Mouse, Rat</td>
</tr>
<tr>
<td><strong>Immunogen</strong></td>
<td>Full length human S100A9 protein [Swiss-Prot# P06702] expressed in E. coli.</td>
</tr>
</tbody>
</table>

## Product Application Details

<table>
<thead>
<tr>
<th><strong>Applications</strong></th>
<th>Western Blot, Simple Western, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Recommended Dilutions</strong></td>
<td>Western Blot 1:1000, Simple Western 1:100, Immunohistochemistry, Immunocytochemistry/Immunofluorescence 1:50-1:200, Immunohistochemistry-Paraffin</td>
</tr>
<tr>
<td><strong>Application Notes</strong></td>
<td>This S100A9 antibody is useful for Immunocytochemistry/Immunofluorescence and Western blot, where a band is seen at approx. 16 kDa. Use in Immunohistochemistry-Paraffin reported in scientific literature (PMID: 21653680) Use in Immunohistochemistry reported in scientific literature (PMID: 25792748) In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. Separated by Size-Wes, Sally Sue/Peggy Sue. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.</td>
</tr>
</tbody>
</table>
Western Blot: S100A9 Antibody [NB110-89726] - Cells were transfected with the pCMV6-ENTRY control or pCMV6-ENTRY S100A9 cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-S100A9.

Immunocytochemistry/Immunofluorescence: S100A9 Antibody [NB110-89726] - S100A9 antibody was tested in A431 cells with FITC (green). Nuclei and alpha-tubulin were counterstained with Dapi (blue) and Dylight 550 (red).

Immunohistochemistry-Paraffin: S100A9 Antibody [NB110-89726] - Key molecules of specific signaling pathways are assayed by immunohistochemistry in the colorectum of mice. Immunohistochemistry (200x magnification) of S100a9, in normal control, IgG Ab, and anti-S100a9 Ab-treated colorectal tissues of the colitis-associated cancer mouse (n = 4). Scale bar, 50 um. Staining scores were determined by semi-quantitative optical analysis. Image collected and cropped by CiteAb from the following publication (http://journal.frontiersin.org/article/10.3389/fimmu.2017.01774/full), licensed under a CC-BY license.

Western Blot: S100A9 Antibody [NB110-89726] - Analysis of S100A9 Antibody in DMSO treated HL60 whole cell lysates.
Simple Western: S100A9 Antibody [NB110-89726] - Simple Western lane view shows a specific band for S100A9 in 0.5 mg/ml of Human PBMC's lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.

Publications

Turchi R, Tortolici F, Benvenuto M et al. Low Sulfur Amino Acid, High Polyunsaturated Fatty Acid Diet Inhibits Breast Cancer Growth International Journal of Molecular Sciences 2022-12-23 (IHC-Fr, Mouse)

Yoshikawa T, Takeichi T, Hirabayashi T et al. IL-17 axis is a significant driver of skin inflammation in Card14 mutant pityriasis rubra pilaris model mice Research Square 2023-02-02 (IHC, Mouse)

Bui TM Dissecting the Diverse Phenotypes and Pathological Impacts of Neutrophils in Colitis-to-CRC Progression Thesis 2022-01-01


Bui TM, Butin-Israeli V, Wiesolek HL et al. Neutrophils Alter DNA Repair Landscape to Impact Survival and Shape Distinct Therapeutic Phenotypes of Colorectal Cancer Gastroenterology 2021-03-19 [PMID: 33753103] (Mouse)


Procedures

Western Blot protocol for S100A9 Antibody (NB110-89726)

Western Blot Protocol

1. Perform SDS-PAGE (4-12% MES) on samples to be analyzed, loading 40 ug of total protein per lane.
2. Transfer proteins to Nitrocellulose according to the instructions provided by the manufacturer of the transfer apparatus.
3. Rinse membrane with dH2O and then stain the blot using Ponceau S for 1-2 minutes to access the transfer of proteins onto the nitrocellulose membrane. Rinse the blot in water to remove excess stain and mark the lane locations and locations of molecular weight markers using a pencil.
4. Rinse the blot in TBS for approximately 5 minutes.
5. Block the membrane using 5% BSA in TBS + Tween, 1 hour at RT.
6. Rinse the membrane in dH2O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
7. Dilute the rabbit anti-S100A9 primary antibody (NB 110-89726) in blocking buffer and incubate 1 hour at room temperature.
8. Rinse the membrane in dH2O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
9. Apply the diluted rabbit-IgG HRP-conjugated secondary antibody in blocking buffer (as per manufacturers instructions) and incubate 1 hour at room temperature.
10. Wash the blot in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each (this step can be repeated as required to reduce background).
11. Apply the detection reagent of choice in accordance with the manufacturers instructions (Pierce ECL).

Note: Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05-0.2%, provided it does not interfere with antibody-antigen binding.
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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