Product Datasheet

Tenascin C Antibody (4C8MS)
NB110-68136

Unit Size: 0.1 ml

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

Reviews: 1  Publications: 17


Updated 9/6/2017 v.20.1

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## Tenascin C Antibody (4C8MS)

<table>
<thead>
<tr>
<th><strong>Product Information</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Unit Size</strong></td>
<td>0.1 ml</td>
</tr>
<tr>
<td><strong>Concentration</strong></td>
<td>1.0 mg/ml</td>
</tr>
<tr>
<td><strong>Storage</strong></td>
<td>Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.</td>
</tr>
<tr>
<td><strong>Clonality</strong></td>
<td>Monoclonal</td>
</tr>
<tr>
<td><strong>Clone</strong></td>
<td>4C8MS</td>
</tr>
<tr>
<td><strong>Preservative</strong></td>
<td>0.02% Sodium Azide</td>
</tr>
<tr>
<td><strong>Isotype</strong></td>
<td>IgG1</td>
</tr>
<tr>
<td><strong>Purity</strong></td>
<td>Protein A purified</td>
</tr>
<tr>
<td><strong>Buffer</strong></td>
<td>PBS</td>
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</tbody>
</table>

## Product Description

<table>
<thead>
<tr>
<th><strong>Host</strong></th>
<th>Mouse</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gene ID</strong></td>
<td>3371</td>
</tr>
<tr>
<td><strong>Gene Symbol</strong></td>
<td>TNC</td>
</tr>
<tr>
<td><strong>Species</strong></td>
<td>Human, Mouse, Rat</td>
</tr>
<tr>
<td><strong>Reactivity Notes</strong></td>
<td>Human, mouse and rat.</td>
</tr>
<tr>
<td><strong>Specificity/Sensitivity</strong></td>
<td>NB110-68136 specifically reacts with Domain B on FNIII repeats of Tenascin C.</td>
</tr>
<tr>
<td><strong>Immunogen</strong></td>
<td>Recombinant human Tenascin C [Swiss-Prot# P24821].</td>
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### Product Application Details

<table>
<thead>
<tr>
<th><strong>Applications</strong></th>
<th>Western Blot, ELISA, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, CyTOF-ready</th>
</tr>
</thead>
</table>

#### Recommended Dilutions

<table>
<thead>
<tr>
<th><strong>Recommended Dilutions</strong></th>
<th>Western Blot 5 ug/ml, Flow Cytometry 1 ug per million cells, ELISA, Immunohistochemistry 1:25 - 1:50, Immunocytochemistry/Immunofluorescence 1:10-1:500, Immunohistochemistry-Paraffin 1:25 - 1:50, Immunohistochemistry-Frozen, CyTOF-ready</th>
</tr>
</thead>
</table>

#### Application Notes

See PMID: 21871891 for the ICC/IF use of this product. For its use in IHC-P, it is recommended to incubate primary antibody for at least 2 hours at room temperature followed by ON incubation at 4C.
Flow (Intracellular): Tenascin C Antibody (4C8MS) [NB110-68136] -
Figure A: An intracellular stain was performed on U87MG Cells with Tenascin C (4C8MS) antibody NB110-68136 (blue) and a matched isotype control NBP1-97005 (orange). Cells were fixed with 4% paraformaldehyde, following fixation, cells were permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 1 ug/mL for 30 minutes at room temperature, followed by mouse F(ab)2 IgG (H+L) APC-conjugated secondary antibody [F0101B, R&D Systems]. Figure B: U87MG Cells were either untreated (orange) or treated with 3uM Monensin (blue). An intracellular stain was performed with Tenascin C (4C8MS) antibody NB110-68136. Cells were fixed with 4% paraformaldehyde, following fixation, cells were permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 1 ug/mL for 30 minutes at room temperature, followed by mouse F(ab)2 IgG (H+L) APC-conjugated secondary antibody [F0101B, R&D Systems].

Immunohistochemistry-Paraffin: Tenascin C Antibody (4C8MS) [NB110-68136] - IHC analysis of a formalin fixed paraffin embedded tissue section of mouse bone-tendon using Tenascin C antibody (clone 4C8MS) at 1:25 dilution. The signal was detected using HRP-DAB detection method which followed counterstaining using hematoxylin. The antibody generated a very specific cytoplasmic, membrane and extracellular signal in tendon fibroblasts, osteoblasts, osteoclasts, and some bone marrow cells. The mineralized areas were largely negative for the staining.

Flow Cytometry: Tenascin C Antibody (4C8MS) [NB110-68136] - Intracellular flow cytometric staining of 1 x 10^6 MCF-7 cells using Tenascin C antibody (dark blue). Isotype control shown in orange. An antibody concentration of 1 ug/1x10^6 cells was used.
Publications

Janune D, Abd El Kader T, Aoyama E et al. Novel role of CCN3 that maintains the differentiated phenotype of articular cartilage. J. Bone Miner. Metab. Nov 16 2016 12:00AM [PMID: 27853940] (WB, Rat)


Details:
Tenascin C antibody used for IHC-P on skin wounds of malnourished male albino Wistar rats (Rattus norvegicus) - antigen retrieval using 1% trypsin solution at 37C for 30 min, primary incubation 60 minutes at 1:50 dilution, detection using EnVision(TM) Polymer - DAB, sections of human placenta tissue used as positive control (Fig 1).


More publications at http://www.novusbio.com/NB110-68136
Procedures

Immunohistochemistry-Paraffin Embedded Sections Protocol Specific for NB110-68136:
Tenascin C Antibody (4C8MS)

Immunohistochemistry-Paraffin Embedded Sections for NB110-68136

Antigen Unmasking:
Bring slides to a boil in 10 mM sodium citrate buffer (pH 6.0) then maintain at a sub-boiling temperature for 10 minutes. Cool slides on bench-top for 30 minutes.

Staining:
1. Wash sections in deionized water three times for 5 minutes each.
2. Wash sections in wash buffer for 5 minutes.
3. Block each section with 100-400 ul blocking solution for 1 hour at room temperature.
4. Remove blocking solution and add 100-400 ul diluted primary antibody. Incubate overnight at 4C.
5. Remove antibody solution and wash sections in wash buffer three times for 5 minutes each.
6. Add 100-400 ul biotinylated diluted secondary antibody. Incubate 30 minutes at room temperature.
7. Remove secondary antibody solution and wash sections three times with wash buffer for 5 minutes each.
8. Add 100-400 ul Streptavidin-HRP reagent to each section and incubate for 30 minutes at room temperature.
9. Wash sections three times in wash buffer for 5 minutes each.
10. Add 100-400 ul DAB substrate to each section and monitor staining closely.
11. As soon as the sections develop, immerse slides in deionized water.
12. Counterstain sections in hematoxylin.
13. Wash sections in deionized water two times for 5 minutes each.
14. Dehydrate sections.
15. Mount coverslips.

*The above information is only intended as a guide. The researcher should determine what protocol best meets their needs. Please follow safe laboratory procedures.
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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