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.

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NB110-68136
Tenascin C Antibody (4C8MS)

Product Information

Unit Size 0.1 ml
Concentration 1.0 mg/ml
Storage Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality Monoclonal
Clone 4C8MS
Preservative 0.02% Sodium Azide
Isotype IgG1
Purity Protein A purified
Buffer PBS

Product Description

Host Mouse
Gene ID 3371
Gene Symbol TNC
Species Human, Mouse, Rat, Feline
Reactivity Notes Human, mouse and rat. Feline reactivity reported in customer review.
Specificity/Sensitivity NB110-68136 specifically reacts with Domain B on FNIII repeats of Tenascin C.
Immunogen Recombinant human Tenascin C [Swiss-Prot# P24821].

Product Application Details

Applications Western Blot, ELISA, Flow Cytometry, Flow (Intracellular), Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, CyTOF-ready
Recommended Dilutions Western Blot 5 ug/ml, Flow Cytometry 1 ug per million cells, ELISA, Immunohistochemistry 1:50, Immunocytochemistry/Immunofluorescence 1:10-1:500, Immunohistochemistry-Paraffin 1:50, Immunohistochemistry-Frozen, Flow (Intracellular), CyTOF-ready
Application Notes See PMID: 21871891 for ICC/IF use of this product. For 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. This antibody is CyTOF ready.

Images

Flow Cytometry: Tenascin C Antibody (4C8MS) [NB110-68136] - An intracellular stain was performed on SK-MEL-28 cells with Tenascin C Antibody [4C8MS] NB110-68136AF647 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 2.5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 647.
Flow (Intracellular): Tenascin C Antibody (4C8MS) [NB110-68136] - Figure A: Intracellular stain 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].

Immunocytochemistry/Immunofluorescence: Tenascin C Antibody (4C8MS) [NB110-68136] - SK-MEL-28 cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X PBS + 0.05% Triton-X100. The cells were incubated with anti-Tenascin C at 5 ug/ml overnight at 4C and detected with an anti-Mouse IgG Dylight 488 (Green) at a 1:500 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.

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] - An intracellular stain was performed on SK-MEL-28 cells with Tenascin C Antibody (4C8MS) NB110-68136AF488 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 488.
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.

Flow Cytometry: Tenascin C Antibody (4C8MS) [NB110-68136] - An intracellular stain was performed on SK-MEL-28 cells with Tenascin C Antibody (4C8MS) NB110-68136 and a matched isotype control. Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 2.5 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).
### Publications

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<tr>
<th>Title</th>
<th>Authors</th>
<th>Journal/Details</th>
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<tr>
<td>Tenasin C antibody used for IHC-P on skin wounds of malnourished male albino Wistar rats - 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).</td>
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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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