Product Datasheet

CTGF/CCN2 Antibody
NB100-724

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

Publications: 4

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Updated 2/20/2019 v.20.1

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### Product Information

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit Size</td>
<td>0.1 ml</td>
</tr>
<tr>
<td>Concentration</td>
<td>1.01 mg/ml</td>
</tr>
<tr>
<td>Storage</td>
<td>Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.</td>
</tr>
<tr>
<td>Clonality</td>
<td>Polyclonal</td>
</tr>
<tr>
<td>Preservative</td>
<td>0.05% 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-Glycine, 0.15 M NaCl</td>
</tr>
<tr>
<td>Target Molecular Weight</td>
<td>38 kDa</td>
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</tbody>
</table>

### Product Description

- **Host**: Rabbit
- **Gene ID**: 1490
- **Gene Symbol**: CTGF
- **Species**: Human, Mouse, Rat
- **Immunogen**: A synthetic peptide made to a C-terminal portion of human CTGF (between residues 299-349). [UniProt# P29279]

### Product Application Details

- **Applications**: Western Blot, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
- **Recommended Dilutions**: Western Blot 1:1000 - 1:2000, Immunohistochemistry, Immunocytochemistry/Immunofluorescence 1:50 - 1:100
- **Application Notes**: In Western blot a band is observed at ~38 kDa. 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.

### Images

Immunocytochemistry/Immunofluorescence: CTGF/CCN2 Antibody [NB100-724] - CTGF antibody was tested in U2OS cells with Dylight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and Dylight 550 (red).
**Publications**


Procedures

Western Blot Protocol for CTGF Antibody (NB100-724)

Western Blot Protocol

1. Perform SDS-PAGE (4-12%) on samples to be analyzed, loading 20 ug of total protein per lane.
2. Transfer proteins to Nitrocellulose according to the instructions provided by the manufacturer of the transfer apparatus.
3. 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% non-fat dry milk + 1% BSA in TBS for 1 hour at RT.
6. Rinse membrane once in TBS and then wash 3x 10 minutes.
7. Dilute the rabbit anti-CTGF primary antibody (NB 100-724) in blocking buffer and incubate 1 hour at room temperature.
8. Rinse membrane once in TBS and then wash 3x 10 minutes.
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. Rinse membrane once in TBS and then wash 3x 10 minutes.
11. Apply the detection reagent of choice in accordance with the manufacturers instructions (Pierce's ECL is the standard reagent used at for this Novus Biologicals assay).

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

Immunocytochemistry/Immunofluorescence Protocol for CTGF Antibody (NB100-724)

Immunocytochemistry Protocol

Culture cells to appropriate density in 35 mm culture dishes or 6-well plates.

1. Remove culture medium and add 10% formalin to the dish. Fix at room temperature for 30 minutes.
2. Remove the formalin and add ice cold methanol. Incubate for 5-10 minutes.
3. Remove methanol and add washing solution (i.e. PBS). Be sure to not let the specimen dry out. Wash three times for 10 minutes.
4. To block nonspecific antibody binding incubate in 10% normal goat serum from 1 hour to overnight at room temperature.
5. Add primary antibody at appropriate dilution and incubate at room temperature from 2 hours to overnight at room temperature.
6. Remove primary antibody and replace with washing solution. Wash three times for 10 minutes.
7. Add secondary antibody at appropriate dilution. Incubate for 1 hour at room temperature.
8. Remove antibody and replace with wash solution, then wash for 10 minutes. Add Hoechst 33258 to wash solution at 1:25,000 and incubate for 10 minutes. Wash a third time for 10 minutes.
9. Cells can be viewed directly after washing. The plates can also be stored in PBS containing Azide covered in Parafilm (TM). Cells can also be cover-slipped using Fluoromount, with appropriate sealing.

*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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<tr>
<th>Product Code</th>
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<tr>
<td>NB820-59661</td>
<td>Mouse Kidney Whole Tissue Lysate (Adult Whole Normal)</td>
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<tr>
<td>NB100-724PEP</td>
<td>CTGF/CCN2 Blocking Peptide</td>
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<tr>
<td>HAF008</td>
<td>Goat anti-Rabbit IgG Secondary Antibody [HRP (Horseradish Peroxidase)]</td>
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<tr>
<td>NB7160</td>
<td>Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]</td>
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<tr>
<td>NBP2-24891</td>
<td>Rabbit IgG Isotype Control</td>
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