Product Datasheet

TIGAR/C12orf5 Antibody
NBP1-49534

Unit Size: 0.1 ml

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

Reviews: 1

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Updated 5/28/2019 v.20.1

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## Product Information

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<table>
<thead>
<tr>
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<tbody>
<tr>
<td><strong>Unit Size</strong></td>
<td>0.1 ml</td>
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<tr>
<td><strong>Concentration</strong></td>
<td>0.5 mg/ml</td>
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<tr>
<td><strong>Storage</strong></td>
<td>Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.</td>
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<tr>
<td><strong>Clonality</strong></td>
<td>Polyclonal</td>
</tr>
<tr>
<td><strong>Preservative</strong></td>
<td>0.05% Sodium Azide</td>
</tr>
<tr>
<td><strong>Isotype</strong></td>
<td>IgG</td>
</tr>
<tr>
<td><strong>Purity</strong></td>
<td>Immunogen affinity purified</td>
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<tr>
<td><strong>Buffer</strong></td>
<td>PBS and 30% Glycerol</td>
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## Product Description

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<tbody>
<tr>
<td><strong>Host</strong></td>
<td>Rabbit</td>
</tr>
<tr>
<td><strong>Gene ID</strong></td>
<td>57103</td>
</tr>
<tr>
<td><strong>Gene Symbol</strong></td>
<td>TIGAR</td>
</tr>
<tr>
<td><strong>Species</strong></td>
<td>Human, Mouse</td>
</tr>
<tr>
<td><strong>Reactivity Notes</strong></td>
<td>Human and mouse.</td>
</tr>
<tr>
<td><strong>Immunogen</strong></td>
<td>A genomic peptide made to an internal region of the human TIGAR protein (within residues 50-200). [Swiss-Prot Q9NQ88]</td>
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<tr>
<td><strong>Notes</strong></td>
<td>Manufactured by Genomic Antibody Technology™. GAT FAQs</td>
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## Product Application Details

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<tr>
<td><strong>Applications</strong></td>
<td>Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin</td>
</tr>
<tr>
<td><strong>Recommended Dilutions</strong></td>
<td>Western Blot 1:5000, Immunohistochemistry 1:10-1:500, Immunohistochemistry-Paraffin 1:10-1:500</td>
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<tr>
<td><strong>Application Notes</strong></td>
<td>This TIGAR antibody is useful for Immunohistochemistry-paraffin sections and Western blot. In Western blot bands are seen ~30 kDa, representing TIGAR, and ~47 kDa. At this time we cannot explain the band at 47 kDa. This antibody does not appear to work in ICC.</td>
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Images

Western Blot: TIGAR/C12orf5 Antibody [NBP1-49534] - Analysis of TIGAR in HeLa whole cell extracts.

Procedures

Western Blot protocol specific for TIGAR Antibody (NBP1-49534)

Western Blot Protocol

1. Perform SDS-PAGE (4-12% MOPS) on samples to be analyzed, loading 40 µg 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% NFDM + 1% 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-TIGAR primary antibody (NBP1-49534) 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.**

Immunohistochemistry-paraffin embedded sections protocol (NBP1-49534)

Immunohistochemistry-paraffin embedded sections

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 dH2O three times for 5 minutes each.
2. Wash section in wash buffer (1X PBS/0.1% Tween-20 (1X PBST)) for 5 minutes.
3. Block each section with 100-400 ul blocking solution (1X PBST, 5% goat serum) for 1 hour at room temperature.
4. Remove blocking solution and add 100-400 ul primary antibody diluted in 1X PBST, 5% goat serum to each section. 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 secondary antibody, diluted in 1X PBST, 5% goat serum. 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 Striptavidin-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 dH2O.
12. Counterstain sections in hematoxylin.
13. Wash sections in dH2O two times for 5 minutes each.
14. Dehydrate sections.
15. Mount coverslips.
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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