Product Datasheet

TGN46 Antibody
NBP1-49643

Unit Size: 0.1 ml

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

Reviews: 2  Publications: 8

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Updated 9/11/2018 v.20.1

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**NBP1-49643**  
**TGN46 Antibody**

### Product Information

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit Size</td>
<td>0.1 ml</td>
</tr>
<tr>
<td>Concentration</td>
<td>0.66 mg/ml</td>
</tr>
<tr>
<td>Storage</td>
<td>Store at 4°C short term. Aliquot and store at -20°C long term. 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>PBS and 30% Glycerol</td>
</tr>
</tbody>
</table>

### Product Description

**Host**: Rabbit  
**Gene ID**: 10618  
**Gene Symbol**: TGOLN2  
**Species**: Human  
**Reactivity Notes**: Human.  
**Marker**: TGN Marker  
**Immunogen**: A genomic peptide made to an internal region of the human TGN46 protein (within residues 200-350). [Swiss-Prot O43493]  
**Notes**: Manufactured by Genomic Antibody Technology™. GAT FAQs

### Product Application Details

**Applications**: Western Blot, Flow Cytometry, Flow (Intracellular), Immunocytochemistry/Immunofluorescence, Immunohistochemistry-Paraffin, Knockout Validated  
**Recommended Dilutions**:  
- Western Blot: 1:100-1:2000  
- Flow Cytometry: Immunohistochemistry 1:400, Immunocytochemistry/Immunofluorescence 1:500, Immunohistochemistry-Paraffin 1:400, Flow (Intracellular), Knockout Validated  
**Application Notes**: This TGOLN2 antibody is useful for Immunohistochemistry on paraffin tissues and Immunocytochemistry/Immunofluorescence. Prior to immunostaining paraffin tissues, antigen retrieval with sodium citrate buffer (pH 6.0) is recommended.

### Images

Flow Cytometry: TGN46 Antibody [NBP1-49643] - An intracellular stain was performed on HepG2 cells with TGN46 Antibody NBP1-49643C (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 μg/mL for 30 minutes at room temperature. Both antibodies were conjugated to DyLight 650.

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technical@novusbio.com
Knockout Validated: TGN46 Antibody [NBP1-49643] - Western blot shows lysates of HeLa human cervical epithelial carcinoma parental cell line and TGN46 knockout (KO) HeLa cell line. PVDF membrane was probed with 1:1000 of Rabbit Anti-Human TGN46 Polyclonal Antibody (Catalog # NBP1-49643) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog #HAF008). Specific band was detected for TGN46 at approximately 100 kDa (as indicated) in the parental HeLa cell line, but is not detectable in the knockout HeLa cell line. This experiment was conducted under reducing conditions.

Western Blot: TGN46 Antibody [NBP1-49643] - Western blot analysis of extracts from HeLa cells using TGN46 antibody (NBP1-49643, 1:100).

Immunocytochemistry/Immunofluorescence: TGN46 Antibody [NBP1-49643] - T98G glioblastoma cells probed for Golgi (Alexa Fluor 488 conjugated TGN-46 antibody, Green), tubulin (Alexa Fluor 594, Red), and nucleus (DAPI, blue). Image provided by customer. Image from the Alexa Fluor 488 version of this antibody.

Flow (Intracellular): TGN46 Antibody [NBP1-49643] - An intracellular stain was performed on HepG2 cells with TGN46 Antibody NBP1-49643AF488 (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 10 μg/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 488.

Immunocytochemistry/Immunofluorescence: TGN46 Antibody [NBP1-49643] - IF Confocal analysis of A549 cells using TGN46 antibody (NBP1-49643, 1:5). An Alexa Fluor 488-conjugated Goat to rabbit IgG was used as secondary antibody (green). Actin filaments were labeled with Alexa Fluor 568 phalloidin (red). DAPI was used to stain the cell nuclei (blue).

Immunocytochemistry/Immunofluorescence: TGN46 Antibody [NBP1-49643] - HeLa 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-TGN46 conjugated to Alexa Fluor 488 [NBP1-49643AF488] at 10μg/ml for 1 hour at room temperature. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.

Immunocytochemistry/Immunofluorescence: TGN46 Antibody [NBP1-49643] - Antibody was tested at 1:100 in HeLa cells with FITC (green).
Immunocytochemistry/Immunofluorescence: TGN46 Antibody [NBP1-49643] - TGOLN2 antibody was tested in HeLa cells with Dylight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and Dylight 550 (red).

Flow (Intracellular): TGN46 Antibody [NBP1-49643] - An intracellular stain was performed on U-937 cells with TGN46 Antibody NBP1-49643 (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 1 ug/mL for 30 minutes at room temperature, followed by rabbit IgG APC-conjugated secondary antibody (F0111, R&D Systems).

Publications


**Procedures**

**Immunohistochemistry-Paraffin Embedded Sections protocol specific for TGOLN2 Antibody (NBP1-49643)**

**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 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. Remove secondary antibody solution and wash sections three times with 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.

**Immunocytochemistry/Immunofluorescence Protocol for TGN46 Antibody (NBP1-49643)**

**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.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

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Novus Biologicals USA
8100 Southpark Way, A-8
Littleton, CO 80120
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
novus@novusbio.com

Novus Biologicals Canada
461 North Service Road West, Unit B37
Oakville, ON L6M 2V5
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada@novusbio.com

Novus Biologicals Europe
19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info@bio-techne.com

General Contact Information
www.novusbio.com
Technical Support: technical@novusbio.com
Orders: orders@novusbio.com
General: novus@novusbio.com

Products Related to NBP1-49643

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<th>Product Code</th>
<th>Description</th>
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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>NB7156</td>
<td>Goat anti-Rabbit IgG (H+L) Secondary Antibody</td>
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<tr>
<td>NBP2-24891</td>
<td>Rabbit IgG Isotype Control</td>
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<tr>
<td>NBP1-49643AF488</td>
<td>TGN46 Antibody [Alexa Fluor® 488]</td>
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