

## Anti-Niemann Pick C2/NPC2 Antibody Picoband®

Catalog Number: A01582-2

### About NPC2

NPC2 is a protein associated with Niemann-Pick disease, type C. This gene is mapped to chromosome 14q24.3. It encodes a protein containing a lipid recognition domain. The encoded protein may function in regulating the transport of cholesterol through the late endosomal/lysosomal system. Mutations in this gene have been associated with Niemann-Pick disease, type C2 and frontal lobe atrophy.

### Overview

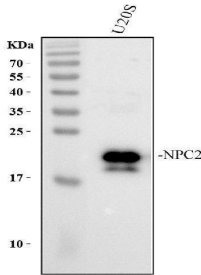
Product Name	Anti-Niemann Pick C2/NPC2 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-Niemann Pick C2/NPC2 Antibody Picoband® catalog # A01582-2. Tested in IHC, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P61916

### Technical Details

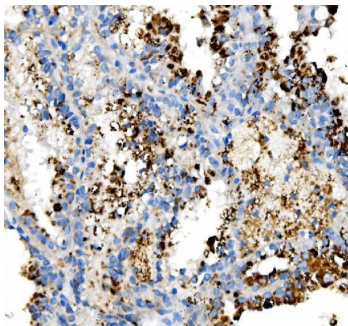
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Niemann Pick C2, which shares 79.4% and 76.5% amino acid (aa) sequence identity with mouse and rat Niemann Pick C2, respectively.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human Immunohistochemistry (Paraffin-embedded Section), 2-5ug/ml, Human

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## Anti-Niemann Pick C2/NPC2 Antibody Picoband® (A01582-2) Images



Western blot analysis of NPC2 using anti-NPC2 antibody (A01582-2). Electrophoresis was performed on a 13% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human U2OS whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-NPC2 antigen affinity purified polyclonal antibody (A01582-2) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054) at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for NPC2 at approximately 16-19 kDa. The expected band size for NPC2 is at 17 kDa.



IHC analysis of NPC2 using anti-NPC2 antibody (A01582-2). NPC2 was detected in a paraffin-embedded section of human renal cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-NPC2 Antibody (A01582-2) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

### 1 Publications Citing This Product

1. PubMed ID: 10.1038/s41401-021-00724-2, Identification of pimavanserin tartrate as a potent Ca<sup>2+</sup>-calcineurin-NFAT pathway inhibitor for glioblastoma therapy

Visit [bosterbio.com/anti-niemann-pick-c2-antibody-a01582-2-boster.html](https://bosterbio.com/anti-niemann-pick-c2-antibody-a01582-2-boster.html) to see all 1 publications.

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