

Anti-NTN3 Antibody Picoband®

Catalog Number: A17692

About NTN3

Netrins are a family of highly conserved proteins responsible for axon guidance and cell movement throughout neural development. Netrins can be divided into secreted netrins (netrin 1,3,4 and 5) and membrane-tethered glycoposphatidylinositol (GPI)-linked netrins (netrin G1 and G2). Secreted netrins carry their function via interaction with several receptors that include the deleted in colorectal (DCC) family, and the uncoordinated-5 (UNC5-A through UNC5-D) family. Netrin-3 was discovered in 1997 using sequence homology searching of netrin-2. Similarly to other netrins, Netrin-3 plays an important role in the development of the nervous system. Netrin-3 structure consist of a laminin-like domain located on the N-terminal, three epidermal growth factors like repeats (EGF), and a C-terminal netrin-like domain (NTR). Mutations in NTN3, the gene encoding netrin-3 was found to be associated with the development of several carcinomas.

Overview

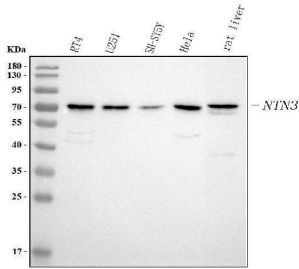
Product Name	Anti-NTN3 Antibody Picoband®
Reactive Species	Human, Rat
Description	Boster Bio Anti-NTN3 Antibody Picoband® catalog # A17692. Tested in ELISA, IF, IHC, ICC, WB, Flow Cytometry (Intracellular) applications. This antibody reacts with Human, Rat. The brand Picoband indicates this is a premium 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	ELISA, IF, IHC, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Storage Instructions	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 freezing and thawing.
Host	Rabbit
Uniprot ID	O00634

Technical Details

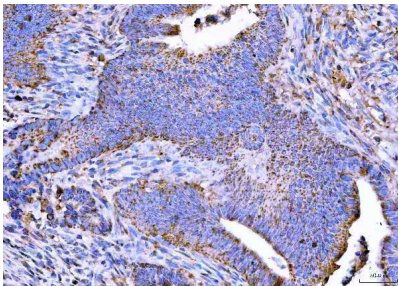
Immunogen	E.coli-derived human NTN3 recombinant protein (Position: R51-R473).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P) and ICC.
Cross Reactivity	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 µg/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Human, Rat Immunohistochemistry(Paraffin-embedded Section), 2-5 ug/ml, Human Immunocytochemistry/Immunofluorescence, 5 ug/ml, Human ELISA, 0.1-0.5 ug/ml, -

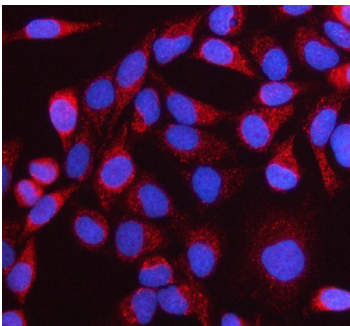
Anti-NTN3 Antibody Picoband® (A17692) Images



Western blot analysis of NTN3 using anti-NTN3 antibody (A17692). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human RT4 whole cell lysates, Lane 2: human U251 whole cell lysates, Lane 3: human SH-SY5Y whole cell lysates, Lane 4: human Hela whole cell lysates, Lane 5: rat liver tissue 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-NTN3 antigen affinity purified polyclonal antibody (Catalog # A17692) 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 at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for NTN3 at approximately 70 kDa. The expected band size for NTN3 is at 70 kDa.



IHC analysis of NTN3 using anti-NTN3 antibody (A17692). NTN3 was detected in a paraffin-embedded section of human colorectal adenocarcinoma 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-NTN3 Antibody (A17692) 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.



IF analysis of NTN3 using anti-NTN3 antibody (A17692). NTN3 was detected in an immunocytochemical section of HELA cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-NTN3 Antibody (A17692) overnight at 4°C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

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Anti-NTN3 Antibody

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