

Anti-Neurocan/NCAN Antibody Picoband®

Catalog Number: A06700-1

About NCAN

Neurocan core protein is a protein that in humans is encoded by the NCAN gene. Neurocan is a member of the lectican / chondroitin sulfate proteoglycan protein families and consists of neurocan core protein and chondroitin sulfate. It is thought to be involved in the modulation of cell adhesion and migration. In the human subjects, it was found that NCAN genotype was strongly associated with manic symptoms but not with depressive symptoms. In the mice, the absence of functional Neurocan resulted in a variety of manic-like behaviors, which could be normalized by administering lithium.

Overview

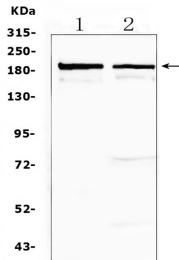
Product Name	Anti-Neurocan/NCAN Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Neurocan/NCAN Antibody Picoband® catalog # A06700-1. Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that 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	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
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	O14594

Technical Details

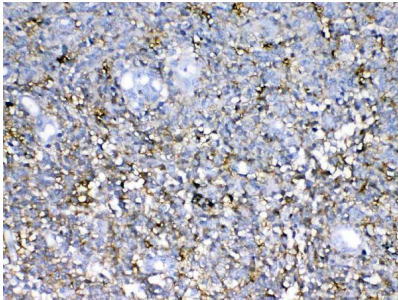
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Neurocan, which shares 90% amino acid (aa) sequence identity with both mouse and rat Neurocan.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
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.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml

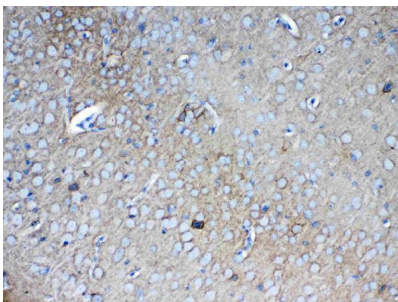
Anti-Neurocan/NCAN Antibody Picoband® (A06700-1) Images



Western blot analysis of Neurocan using anti-Neurocan antibody (A06700-1). 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 50ug of sample under reducing conditions. Lane 1: rat brain tissue lysates, Lane 2: rat testis tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-Neurocan antigen affinity purified polyclonal antibody (Catalog # A06700-1) at 0.5 ug/mL overnight at 4 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 1:10000 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 Neurocan at approximately 200KD. The expected band size for Neurocan is at 143KD.



IHC analysis of Neurocan using anti-Neurocan antibody (A06700-1). Neurocan was detected in paraffin-embedded section of human glioma tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Neurocan Antibody (A06700-1) overnight at 4 Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 The tissue section was developed using Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.



IHC analysis of Neurocan using anti-Neurocan antibody (A06700-1). Neurocan was detected in paraffin-embedded section of mouse brain tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Neurocan Antibody (A06700-1) overnight at 4 Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 The tissue section was developed using Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

2 Publications Citing This Product

1. PubMed ID: 22629422, Wang R, Zhang X, Zhang J, Fan Y, Shen Y, Hu W, Chen Z. Plos One. 2012;7(5):E37574. Doi: 10.1371/Journal.Pone.0037574. Epub 2012 May 22. Oxygen-Glucose Deprivation Induced Glial Scar-Like Change In Astrocytes.

2. PubMed ID: 25620315, Zhao Yy, Yuan Y, Chen Y, Jiang L, Liao Rj, Wang L, Zhang Xn, Ohtsu H, Hu Ww, Chen Z. Cns Neurosci Ther. 2015

May;21(5):454-62. Doi: 10.1111/Cns.12379. Epub 2015 Jan 24. Histamine Promotes Locomotion Recovery After Spinal Cord Hemisection Via Inhib...

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