BOSTER BIOLOGICAL TECHNOLOGY
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Anti-TrkB/NTRK2 Antibody Picoband®

Catalog Number: A01388-4

About NTRK2

This gene encodes a member of the neurotrophic tyrosine receptor kinase (NTRK) family. This kinase is a membrane-bound receptor that, upon neurotrophin binding, phosphorylates itself and members of the MAPK pathway. Signalling through this kinase leads to cell differentiation. Mutations in this gene have been associated with obesity and mood disorders. Alternative splicing results in multiple transcript variants.

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Overview

Product Name	Anti-TrkB/NTRK2 Antibody Picoband®
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-TrkB/NTRK2 Antibody Picoband® catalog # A01388-4. Tested in WB, ELISA applications. This antibody reacts with 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	ELISA, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
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	Q16620

Technical Details

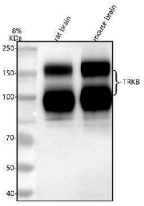
Immunogen	E.coli-derived human TrkB/NTRK2 recombinant protein (Position: N148-G822).
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.

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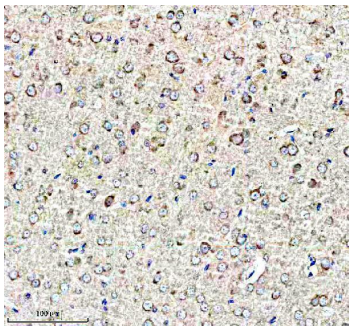
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Mouse, Rat ELISA, 0.1-0.5 ug/ml

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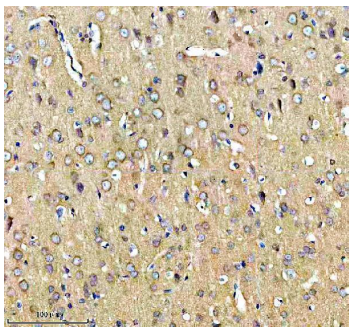
Anti-TrkB/NTRK2 Antibody Picoband® (A01388-4) Images



Western blot analysis of TrkB/NTRK2 using anti-TrkB/NTRK2 antibody (A01388-4). Electrophoresis was performed on a 10% 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: rat brain tissue lysates, Lane 2: mouse brain 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-TrkB/NTRK2 antigen affinity purified polyclonal antibody (A01388-4) at 1:1000 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 ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for TrkB/NTRK2 at approximately 92150 kDa. The expected band size for TrkB/NTRK2 is at 92 kDa.



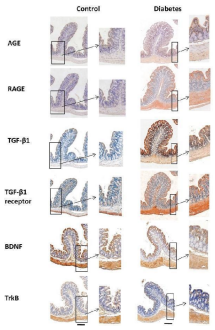
IHC analysis of TrkB/NTRK2 using anti-TrkB/NTRK2 antibody (A01388-4). TrkB/NTRK2 was detected in a paraffin-embedded section of mouse brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:100 rabbit anti-TrkB/NTRK2 Antibody (A01388-4) 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.



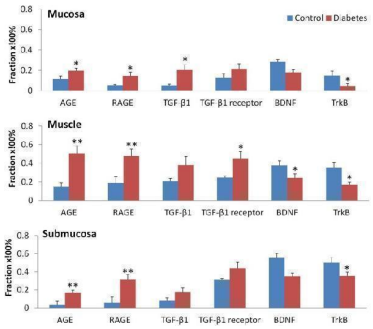
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The representative samples of immunohistochemical staining for AGE, RAGE, TGF-beta1, TGF- beta1 receptor, BDNF and TrkB in the colon wall of two groups. The microscopy with high magnification have been inserted in each single histological photo (arrow) in order to display the

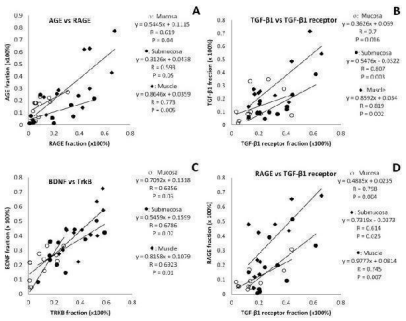
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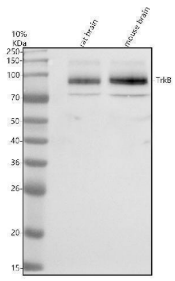
localization of markers. The staining of all proteins was stronger in the muscle layer than other layers. In the different layers, the staining of AGE, RAGE, TGF-beta1 and TGF- beta1 receptor was stronger whereas the staining of BDNF and TrkB was weaker in the Diabetes group than in Control group. Bar = 100 um. Index in PubMed under a CC BY license. PMID: 29930382



The fraction of AGE, RAGE, TGF-beta1, TGF- beta1 receptor, BDNF and TrkB in the different layers of the colon between two groups. In the different layers, the fraction of AGE, RAGE, TGF-beta1 and TGF- beta1 receptor was bigger whereas the fraction of BDNF and TrkB was smaller in the Diabetes group than in Control group. Compared with Control group: *P < 0.05, **P < 0.01. Index in PubMed under a CC BY license. PMID: 29930382



(A) Correlation between AGE and RAGE in different layers; (B) Correlation between TGF-beta1 and TGF-beta1receptor in different layers; (C) Correlation between BDNF and TrkB in different layers; (D) Correlation between RAGE and TGF-beta1receptor in different layers. Index in PubMed under a CC BY license. PMID: 29930382



Western blot analysis of TrkB/NTRK2 using anti-TrkB/NTRK2 antibody (A01388-4). Electrophoresis was performed on a 10% 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: rat brain tissue lysates, Lane 2: mouse brain 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-TrkB/NTRK2 antigen affinity purified polyclonal antibody (A01388-4) 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 ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for TrkB/NTRK2 at approximately 92 kDa. The expected band size for TrkB/NTRK2 is at 92 kDa.

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