BOSTER
antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-Neurotrophin 3/NTF3 Antibody Picoband®

Catalog Number: PA1062

About NTF3

Neurotrophin-3 is a member of a family of neurotrophic factors, that is closely related to both nerve growth factor and brain derived neurotrophic factor. These proteins are involved in the maintenance of the adult nervous system and affect development of neurons in the embryo when it is expressed in human placenta. NT3 deficient mice generated by gene targeting display severe movement defects of the limbs.

Overview

Product Name	Anti-Neurotrophin 3/NTF3 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Neurotrophin 3/NTF3 Antibody catalog # PA1062. 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 antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
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	P20783

Technical Details

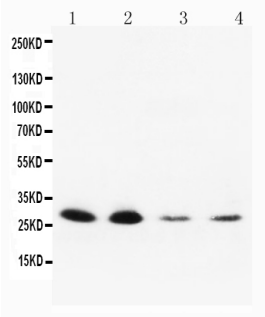
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human Neurotrophin 3, identical to the related rat and mouse sequences.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG

BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

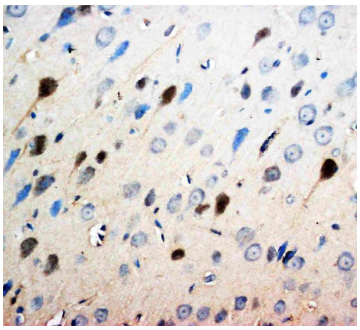
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Rat, Human, Mouse Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat

BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

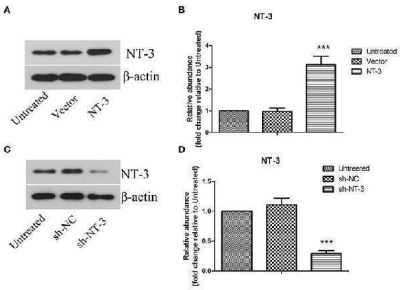
Anti-Neurotrophin 3/NTF3 Antibody Picoband® (PA1062) Images



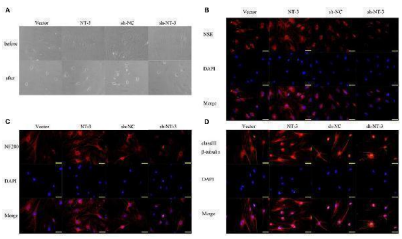
Anti-Neurotrophin 3 antibody, PA1062, Western blottingLane 1: Rat Brain Tissue LysateLane 2: Rat Brain Tissue LysateLane 3: MCF-7 Cell LysateLane 4: HELA Cell Lysate



Anti-Neurotrophin 3 antibody, PA1062, IHC(P)IHC(P): Rat Brain Tissue



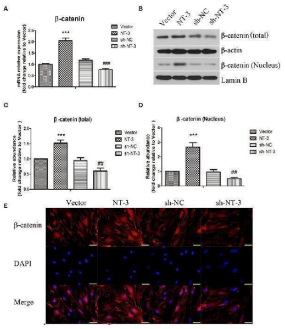
Lentivirus-mediated overexpression or interference of NT-3 in BMSCs. (A,C) The protein level of NT-3 in BMSCs transfected by lentivirus was detected by western blot assay. beta-actin was used as a loading control. (B,D) The densitometric analysis results were shown. The data were expressed as means ± SD (n = 3). The results displayed were obtained from at least three independent experiments. *** P < 0.001, versus the vector group or sh-NC group.Index in PubMed under a CC BY license. PMID: 33642999



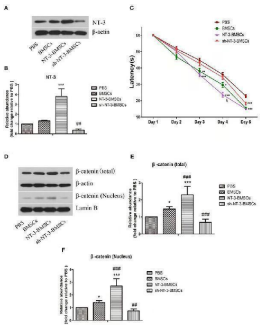
Effect of NT-3 on the differentiation of BMSCs into neurons. (A) The morphology changes of BMSCs before and after neuronal differentiation induction were observed under the microscope. (B–D) The expressions of NSE, NF-200, and class III beta-tubulin were assessed by immunofluorescence staining. Scale bars represent 50 um. The results displayed were obtained from at least three independent experiments.Index in PubMed under a CC BY license. PMID: 33642999

Effect of NT-3 on Wnt/beta-catenin signaling pathway in BMSCs. (A) The mRNA expression of NT-3 in BMSCs was assessed by qPCR. (B) The levels of total and nuclear beta-catenin in BMSCs were determined by western blot assay. beta-actin and Lamin B were used as loading controls. (C,D) The densitometric analysis results were shown. (E) The expression of beta-catenin in BMSCs was detected by immunofluorescence staining. Scale bars represent 50 um. The data were expressed as means ± SD (n = 3). The

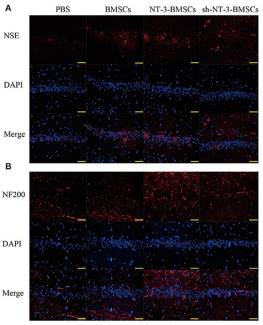
BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com



results displayed were obtained from at least three independent experiments. *** P < 0.001, vs. the vector group. ## P < 0.01; ### P < 0.001, vs. the sh-NC group.Index in PubMed under a CC BY license. PMID: 33642999



Effect of NT-3 genetic modified BMSCs transplantation on the cognitive function and Wnt/beta-catenin pathway in rats with AD. (A) The protein levels of NT-3 in brain tissues were assessed by western blot assay. beta-actin was used as a loading control. (B) The densitometric analysis results were shown. (C) The cognitive function of the AD rats were determined by MWM. The mean escape latency of each group was shown. (D) The levels of total and nuclear beta-catenin in brain tissues were determined by western blot assay. beta-actin and Lamin B were used as loading controls. (E,F) The densitometric analysis results were shown. The data were expressed as means ± SD (n = 4). The results displayed were obtained from at least three independent experiments. * P < 0.05, ** P < 0.01; *** P < 0.001, vs. the PBS group. # P < 0.05; ## P < 0.01; ### P < 0.001, vs. the BMSCs group.Index in PubMed under a CC BY license. PMID: 33642999



Effect of NT-3 genetic modified BMSCs transplantation on neurogenesis in brain tissues. The expressions of NSE (A) and NF-200 (B) in the brain tissues were determined by immunofluorescence staining. Scale bars represent 50 um. The results displayed were obtained from at least three independent experiments.Index in PubMed under a CC BY license. PMID: 33642999

1 Publications Citing This Product

1. PubMed ID: 16773039, Guo Js, Zeng Ys, Li Hb, Huang Wl, Liu Ry, Li Xb, Ding Y, Wu Lz, Cai Dz. Spinal Cord. 2007 Jan;45(1):15-24. Epub 2006 Jun 13. Cotransplant Of Neural Stem Cells And Nt-3 Gene Modified Schwann Cells Promote The Recovery Of Transected Spinal Cord Injury.

Visit bosterbio.com/anti-neurotrophin-3-antibody-pa1062-boster.html to see all 1 publications.

Submit a product review to Biocompare.com

Submit a review of this product to Biocompare.com to receive a $20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.

BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-Neurotrophin 3/NTF3 Antibody

For Research Use Only. Not for use in diagnostic procedures.