BOSTER BIOLOGICAL TECHNOLOGY
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Anti-NT-4/NTF4 Antibody Picoband®

Catalog Number: A06935-3

About NTF4

Neurotrophin-4 (NT-4), also known as neurotrophin-5 (NT-5), is a protein that in humans is encoded by the NTF4 gene. This gene is a member of a family of neurotrophic factors, neurotrophins, that control survival and differentiation of mammalian neurons. The expression of this gene is ubiquitous and less influenced by environmental signals. While knock-outs of other neurotrophins including nerve growth factor, brain-derived neurotrophic factor, and neurotrophin 3 prove lethal during early postnatal development, NTF5-deficient mice only show minor cellular deficits and develop normally to adulthood.

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Overview

Product Name	Anti-NT-4/NTF4 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-NT-4/NTF4 Antibody Picoband® catalog # A06935-3. Tested in 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	WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
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	P34130

Technical Details

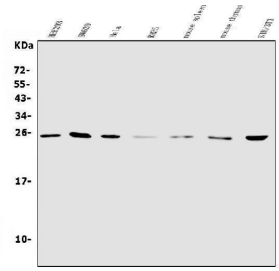
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human NT-4/NTF4, which shares 83.3% amino acid (aa) sequence identity with both mouse and rat NT-4/NTF4.

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Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
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, 0.25-0.5ug/ml, Human, Mouse, Rat

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Anti-NT-4/NTF4 Antibody Picoband® (A06935-3) Images



Western blot analysis of NT-4/NTF4 using anti-NT-4/NTF4 antibody (A06935-3). 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 30ug of sample under reducing conditions. Lane 1: human HEK293 whole cell lysates, Lane 2: human SW620 whole cell lysates, Lane 3: human Hela whole cell lysates, Lane 4: rat RH-35 whole cell lysates, Lane 5: mouse spleen tissue lysates, Lane 6: mouse thymus tissue lysates, Lane 7: mouse NIH/3T3 whole cell 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-NT-4/NTF4 antigen affinity purified polyclonal antibody (Catalog # A06935-3) 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 NT-4/NTF4 at approximately 24KD. The expected band size for NT-4/NTF4 is at 24KD.

Anti-NT-4/NTF4 Antibody

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