

## 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.

### 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.
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.
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**

Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

Western blot, 0.25-0.5ug/ml, Human, Mouse, Rat

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

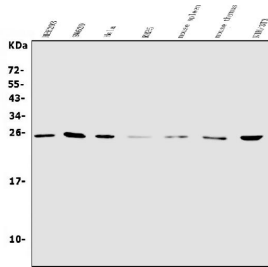


Figure 1. Western blot analysis of NT-4/NTF4 using anti-NT-4/NTF4 antibody (A06935-3).

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.

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