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Anti-NGF Antibody Picoband™

Catalog Number: A00341-1

About NGF

Nerve growth factor (NGF) is a neurotrophic factor and neuropeptide primarily involved in the regulation of growth, maintenance, proliferation, and survival of certain target neurons. It is mapped to 1p13.2. This gene is a member of the NGF-beta family and encodes a secreted protein which homodimerizes and is incorporated into a larger complex. This protein has nerve growth stimulating activity and the complex is involved in the regulation of growth and the differentiation of sympathetic and certain sensory neurons. Mutations in this gene have been associated with hereditary sensory and autonomic neuropathy, type 5 (HSAN5), and dysregulation of this gene's expression is associated with allergic rhinitis.

Overview

Product Name	Anti-NGF Antibody Picoband™
Reactive Species	Human
Description	Boster Bio Anti-NGF Antibody Picoband™ catalog # A00341-1. Tested in WB applications. This antibody reacts with Human.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na_2HPO_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	P01138

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human NGF, which shares 91.3% amino acid (aa) sequence identity with both mouse and rat NGF.
Predicted Reactive Species	Chicken
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.

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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

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Anti-NGF Antibody Picoband™ (A00341-1) Images

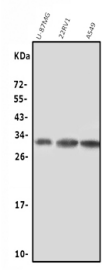

Figure 1. Western blot analysis of NGF using anti-NGF antibody (A00341-1).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.
Lane 1: human U-87MG whole cell lysates,
Lane 2: human 22RV1 whole cell lysates,
Lane 3: human A549 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-NGF antigen affinity purified polyclonal antibody (Catalog # A00341-1) 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 1:10000 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 NGF at approximately 27KD. The expected band size for NGF is at 27KD.

5 Publications Citing This Product

1. PubMed ID: 10.1002/glia.20511, Olfactory ensheathing cells promote migration of Schwann cells by secreted nerve growth factor

2. PubMed ID: 10.1002/ar.22682, Temporal Profile of Nerve Growth Factor Expression in the Partial Central Nervous System of the Yangtze Alligator Alligator sinensis (Reptilia,Crocodylia) During Early Postnatal Growth

3. PubMed ID: 10.1002/ar.22682, Temporal Profile of Nerve Growth Factor Expression in the Partial Central Nervous System of the Yangtze Alligator Alligator sinensis (Reptilia,Crocodylia) During Early Postnatal Growth

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