

Anti-BDNF Antibody

Catalog Number: PA1014

About BDNF

Brain derived neurotrophic factor (BDNF) is a member of the neurotrophin family of growth factors that includes NGF, NT3, and NT4. BDNF is a prosurvival factor induced by cortical neurons that is necessary for survival of striatal neurons in the brain. BDNF is expressed within peripheral ganglia and is not restricted to neuronal target fields. BDNF has been purified and shown to reduce the amount of naturally occurring neuronal cell death in portions of the peripheral nervous system.

Overview

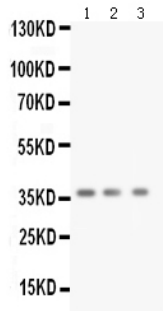
Product Name	Anti-BDNF Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-BDNF Antibody catalog # PA1014. Tested in WB applications. This antibody reacts with Human, Mouse, Rat.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg 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	P23560

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminal of human BDNF, identical to the related rat and mouse sequences.
Predicted Reactive Species	Hamster
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	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat</p>

Anti-BDNF Antibody (PA1014) Images



Anti-BDNF antibody, PA1014, Western blotting
All lanes: Anti BDNF (PA1014) at 0.5ug/ml
Lane 1: Rat Brain Tissue Lysate at 50ug
Lane 2: Mouse Brain Tissue Lysate at 50ug
Lane 3: MCF-7 Whole Cell Lysate at 40ug
Predicted bind size: 28KD
Observed bind size: 37KD

17 Publications Citing This Product

1. PubMed ID: 34058286, Xue LL, Du RL, Hu Y, Xiong LL, Su ZY, Ma Z, Tan YX, Liu J, Hu Q, Zhu ZQ, Wang TH, Liu XZ. BDNF promotes neuronal survival after neonatal hypoxic-ischemic encephalopathy by up-regulating Stx1b and suppressing VDAC1. Brain Res Bull. 2021 May 28;S0361-9230(21)00144-1. doi:10.1016/j.brainresbull.2021.05.013. Epub ahead of print. PMID:34058286.
2. PubMed ID: -, Feng, S., Wang, S., Sun, S., Su, H., & Zhang, L. (2021). Effects of combination treatment with transcranial magnetic stimulation and bone marrow mesenchymal stem cell transplantation or Raf inhibition on spinal cord injury in rats. Molecular Medicine Reports, 23, 294.h
3. PubMed ID: 28033308, Effects of Polysaccharide of Gastrodia Elata Blume and Electro-Acupuncture on Expressions of Brain-Derived Neurotrophic Factor and Stem Cell Factor Protein in Caudate Putamen of Focal Cerebral Ischemia Rats

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