

Anti-TrkB/NTRK2 Antibody

Catalog Number: PA2150

About NTRK2

TrkB is also known as NTRK2. This gene encodes a member of the neurotrophic tyrosine receptor kinase (NTRK) family. This kinase is a membrane-bound receptor that, upon neurotrophin binding, phosphorylates itself and members of the MAPK pathway. Signalling through this kinase leads to cell differentiation. Mutations in this gene have been associated with obesity and mood disorders. Alternative splicing results in multiple transcript variants. Tropomyosin receptor kinase B is the high affinity catalytic receptor for several "neurotrophins", which are small protein growth factors that induce the survival and differentiation of distinct cell populations. The neurotrophins that activate TrkB are: BDNF (Brain Derived Neurotrophic Factor), neurotrophin-4 (NT-4), and neurotrophin-3 (NT-3). As such, TrkB mediates the multiple effects of these neurotrophic factors, which includes neuronal differentiation and survival.

Overview

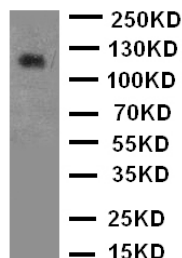
Product Name	Anti-TrkB/NTRK2 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-TrkB/NTRK2 Antibody catalog # PA2150. Tested in WB applications. This antibody reacts with Human, Mouse, Rat.
Application	WB
Clonality	Polyclonal JLT-12
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 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	Q16620

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human TrkB, different from the related mouse and rat sequences by one amino acid.
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
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, Rat, Human, Mouse</p>

Anti-TrkB/NTRK2 Antibody (PA2150) Images



Anti-TrkB antibody, PA2150, Western blotting
WB: Rat Brain Tissue Lysate

4 Publications Citing This Product

1. PubMed ID: 22015157, Li C, Li C, Zhu X, Wang C, Liu Z, Li W, Lu C, Zhou X. Theriogenology. 2012 Feb;77(3):636-43. Doi: 10.1016/J.Theriogenology.2011.09.003. Epub 2011 Oct 19. The Expression And Putative Role Of Brain-Derived Neurotrophic Factor And Its Receptor In Bov...
2. PubMed ID: 20566405, Li F, Gong Qh, Wu Q, Lu Yf, Shi Js. Pharmacol Biochem Behav. 2010 Sep;96(3):301-5. Doi: 10.1016/J.Pbb.2010.05.021. Epub 2010 Jun 1. Icariin Isolated From Epimedium Brevicornum Maxim Attenuates Learning And Memory Deficits Induced By D-Galactose In...
3. PubMed ID: 28116298, 7,8-DHF Treatment Induces Cyr61 Expression to Suppress Hypoxia Induced ER Stress in HK-2 Cells

Visit bosterbio.com/anti-trkb-antibody-pa2150-boster.html to see all 4 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.



Anti-TrkB/NTRK2 Antibody