

TrkB Antibody
Rabbit polyclonal antibody
Catalog # AN1211**Specification**

TrkB Antibody - Product Information

Application	WB
Primary Accession	Q63604
Reactivity	Rat
Host	Rabbit
Clonality	polyclonal

TrkB Antibody - Additional Information

Gene ID	25054
Gene Name	Ntrk2

Other Names

BDNF/NT-3 growth factors receptor, Neurotrophic tyrosine kinase receptor type 2, TrkB tyrosine kinase, Trk-B, Ntrk2, Trkb

Target/Specificity

Synthetic peptide corresponding to amino acid residues from the C-terminal region conjugated to KLH.

Dilution

WB~~ 1:1000

Format

Prepared from rabbit serum by affinity purification on a column made with the C-terminal peptide used as antigen.

Antibody Specificity

Specific for the ~93 kDa TrkB protein in Western blots.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

TrkB Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping

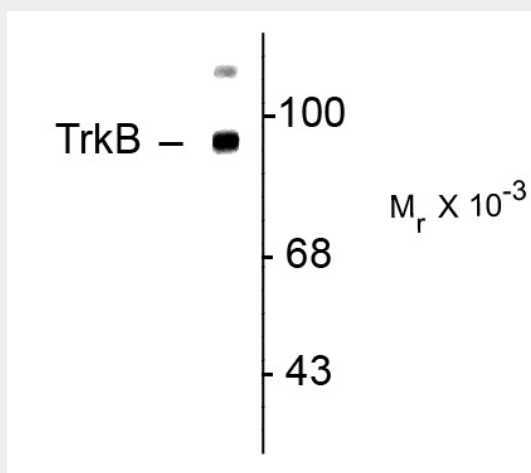
Blue Ice

TrkB Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

TrkB Antibody - Images



Western blot of rat synaptic membrane preparation showing specific immunolabeling of the ~ 93k TrkB protein.

TrkB Antibody - Background

Tropomyosin-receptor-kinase (TRK) receptors are members of the receptor tyrosine kinase family and include TrkA, TrkB and TrkC. Each of these receptor types has different binding affinities to the neurotrophins nerve growth factor (NGF), brain-derived neurotrophic factor (BDNF) and neurotrophin 3 (NT-3). TrkB has the highest affinity to binding BDNF which plays critical roles in the function and survival of neurons in the CNS (Soppet et al., 1991; Klein et al., 1991). Additionally, alterations in expression of TrkB have been associated with Alzheimer's disease (Ferrer et al., 1999; Chen et al., 2008).

TrkB Antibody - References

- Soppet D, Escandon E, Maragos J, Middlemas DS, Reid SW, Blair J, Burton LE, Stanton BR, Kaplan DR, Hunter T, Nikolics K, Parada LF (1991) The neurotrophic factors brain-derived neurotrophic factor and neurotrophin-3 are ligands for the trkB tyrosine kinase receptor. *Cell*. May 31;65(5):895-903.
- Klein R, Nanduri V, Jing SA, Lamballe F, Tapley P, Bryant S, Cordon-Cardo C, Jones KR, Reichardt LF, Barbacid M (1991) The trkB tyrosine protein kinase is a receptor for brain-derived neurotrophic factor and neurotrophin-3. *Cell*. Jul 26;66(2):395-403.
- Ferrer I, Marín C, Rey MJ, Ribalta T, Goutan E, Blanco R, Tolosa E, Martí E (1999) BDNF and full-length and truncated TrkB expression in Alzheimer disease. Implications in therapeutic strategies. *J Neuropathol Exp Neurol*. Jul;58(7):729-39.
- Chen Z, Simmons MS, Perry RT, Wiener HW, Harrell LE, Go RC. (2008) Genetic association of neurotrophic tyrosine kinase receptor type 2 (NTRK2) With Alzheimer's disease. *Am J Med Genet B Neuropsychiatr Genet*. Apr 5;147(3):363-9.