

TrkB Polyclonal Antibody

Catalog NumberPA1-18403

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Mouse, Rat
Host/Isotope	Rabbit / IgG	Tested Applications	Dilution *
Class	Polyclonal		
Type	Antibody		
Immunogen	Extracellular domain of glycosylated mouse TrkB protein produced in CHO cells.	ELISA (ELISA)	1:10,000
Conjugate	Unconjugated	Immunohistochemistry (Frozen) (IHC (F))	1:1,000-1:3,000
Form	Lyophilized	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Concentration	Conc. Not Determined		
Storage buffer	whole serum		
Contains	no preservative		
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles		

Product specific information

Reconstitute in 100 µL of sterile water. Centrifuge to remove any insoluble material. After reconstitution keep aliquots at -20 °C for a higher stability, and at 4 °C with an appropriate antibacterial agent. Glycerol (1:1) may be added for an additional stability. Avoid repetitive freeze/thaw cycles.

Background/Target Information

NTRK2 (TRKB) belongs to the neurotrophic factor family of related polypeptides central to the development and maintenance of the mammalian nervous system. NTRK2 is the receptor for brain-derived neurotrophic factor (BDNF). Together, NTRK2 and BDNF regulate both short-term synaptic functions and long-term potentiation of brain synapses. TrkB is involved in the development and maintenance of the nervous system. Moreover, Trk B is a tyrosine kinase gene highly related to Trk A. Trk B expression is confined to tissues within the central and peripheral nervous systems. The brain-derived neurotrophic factor (BDNF) and NT-3, but not NGF, can induce rapid phosphorylation on tyrosine of Trk B gp145, one of the receptors encoded by Trk B, although BDNF elicits a response at least two orders of magnitude greater than NT-3. TrkB is a membrane-bound receptor that, upon neurotrophin binding, phosphorylates itself and members of the MAPK pathway. Signaling through TrkB leads to cell differentiation. Mutations in the TrkB gene have been associated with obesity and mood disorders. Alternate transcriptional splice variants encoding different isoforms have been found for the TrkB gene.

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