TrkB Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TrkB, Polyclonal Antibody
Full Product Name	TrkB Polyclonal Antibody
Product Gene Name	anti-TrkB antibody
Product Synonym Names	NTRK2; GP145-TrkB; TRKB; trk-B; OBHD; BDNF/NT-3 growth factors receptor
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	PBS with 50% glycerol, pH7.3.
Purity/Purification	Affinity purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	91,999 Da
Chromosome Location	Chromosome: 9; NC_000009.11 (87283466..87638505). Location: 9q22.1
OMIM	600456
3D Structure	ModBase 3D Structure for Q16620
Immunogen	Recombinant fusion protein of human TrkB
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-TrkB antibody	Western Blot (WB)
Application Notes for anti-TrkB antibody	WB: 1:500-1:2000
Related Product Information for anti-TrkB antibody	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.
Other Notes	Small volumes of anti-TrkB antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for TrkB purchase	MBS8578681 is an antibody targeting TrkB. Also known as TrkB Polyclonal Antibody. Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TrkB. It may not necessarily be applicable to this product.

NCBI GI #	55956790
NCBI GeneID	4915

NCBI Accession #	NP_001007098.1
UniProt Primary Accession #	Q16620
UniProt Secondary Accession #	Q16675; Q59GJ1; Q8WXJ5; Q8WXJ6; Q8WXJ7; B1ANZ4; B4DFV9
UniProt Related Accession #	Q16620
GenBank Nucleotide #	NM_001007097.1
NCBI Official Full Name	BDNF/NT-3 growth factors receptor isoform b
NCBI Official Synonym Full Names	neurotrophic tyrosine kinase, receptor, type 2
NCBI Official Symbol	NTRK2
NCBI Official Synonym Symbols	TRKB; trk-B; GP145-TrkB
UniProt Protein Name	BDNF/NT-3 growth factors receptor
UniProt Synonym Protein Names	GP145-TrkB; Trk-B; Neurotrophic tyrosine kinase receptor type 2; TrkB tyrosine kinase; Tropomyosin-related kinase B
Protein Family	BDNF/NT-3 growth factors receptor
UniProt Gene Name	NTRK2
UniProt Synonym Gene Names	TRKB; Trk-B
UniProt Entry Name	NTRK2_HUMAN
NCBI Protein Information	BDNF/NT-3 growth factors receptor; trkB tyrosine kinase; tyrosine kinase receptor B; tropomyosin-related kinase B; BDNF-tropomyosine receptor kinase B
NCBI Summary for TrkB	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. Alternate transcriptional splice variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

UniProt Comments for TrkB	TrkB: a receptor tyrosine kinase of the Trk family. Receptor for brain-derived neurotrophic factor (BDNF), neurotrophin-3, -4 and -5 but not nerve growth factor (NGF). Involved in the development and maintenance of the nervous system. Three splice variant isoforms have been described. Protein type: Membrane protein, integral; EC 2.7.10.1; Protein kinase, tyrosine (receptor); Protein kinase, TK; Kinase, protein; TK group; Trk family Chromosomal Location of Human Ortholog: 9q22.1 Cellular Component: postsynaptic membrane; cell surface; growth cone; rough endoplasmic reticulum; integral to plasma membrane; dendritic spine; presynaptic active zone; excitatory synapse; terminal button; perikaryon; endosome membrane; cytosol; receptor complex Molecular Function: brain-derived neurotrophic factor receptor activity; neurotrophin binding; protein homodimerization activity; ephrin receptor binding; brain-derived neurotrophic factor binding; ATP binding Biological Process: circadian rhythm; mechanoreceptor differentiation; retinal rod cell development; peptidyl-tyrosine phosphorylation; nerve growth factor receptor signaling pathway; protein amino acid autophosphorylation; regulation of dendrite development; neuron migration; regulation of neurotransmitter secretion; positive regulation of synaptic transmission, glutamatergic; neuron differentiation; positive regulation of MAPKKK cascade; positive regulation of cell proliferation; oligodendrocyte differentiation; feeding behavior; negative regulation of neuron apoptosis; inflammatory response; vasculogenesis; neuromuscular junction development; central nervous system neuron development; aging; response to light stimulus; brain-derived neurotrophic factor receptor signaling pathway; adenylate cyclase activation; regulation of protein kinase B signaling cascade; learning; positive regulation of peptidyl-serine phosphorylation; positive regulation of phosphoinositide 3-kinase cascade; peripheral nervous system neuron development; long-term memory; glutamate secretion; positive regulation of axonogenesis; cerebral cortex development; transmembrane receptor protein tyrosine kinase signaling pathway Disease: Obesity, Hyperphagia, And Developmental Delay
Research Articles on TrkB	**1.** Increased truncated TrkB receptors may contribute to reduced overall BDNF/tyrosine receptor kinase B (TrkB) signaling and lead to reduced neuronal plasticity in the dorsolateral prefrontal cortex in schizophrenia.
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