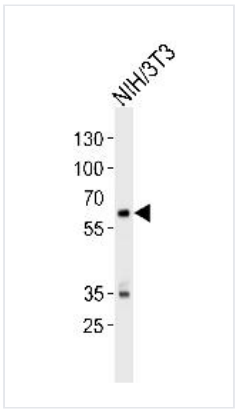
NTRK2 Antibody – Rabbit Polyclonal

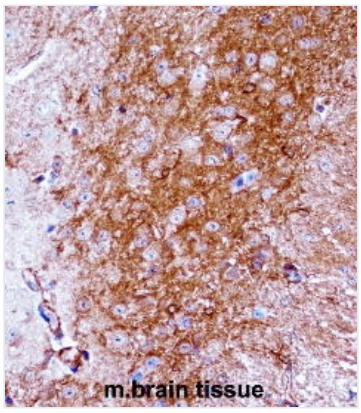
PRODUCT OVERVIEW

Product Name	Ntrk2, Polyclonal Antibody
Full Product Name	Ntrk2, ID (Ntrk2, Trkb, BDNF/NT-3 growth factors receptor, GP145-TrkB/GP95-TrkB, Neurotrophic tyrosine kinase receptor type 2, TrkB tyrosine kinase) (AP)
Product Gene Name	anti-Ntrk2 antibody
Product Synonym Names	Ntrk2; Trkb; BDNF/NT-3 growth factors receptor; GP145-TrkB/GP95-TrkB; Neurotrophic tyrosine kinase receptor type 2; TrkB tyrosine kinase
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse, Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes mouse Ntrk2.
Preparation and Storage	Store product at 4 degree C. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	83,744 Da
3D Structure	ModBase 3D Structure for P15209
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within aa342-372 amino acids from the Central region of Mouse Ntrk2 (NP_001020245.1; NP_032771.1).
Conjugate	AP
Note	Preservative Free
Product Categories/Family for anti-Ntrk2 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-Ntrk2 antibody	Immunohistochemistry (IHC), ELISA (EIA), Western Blot (WB)
Application Notes for anti-Ntrk2 antibody	IHC: 1:10-50 ELISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-Ntrk2 antibody	Receptor for brain-derived neurotrophic factor (BDNF), neurotrophin-3 and neurotrophin-4/5 but not nerve growth factor (NGF). Involved in the development and/or maintenance of the nervous system. This is a tyrosine-protein kinase receptor. Known substrates for the TRK receptors are SHC1, PI-3 kinase, and PLC-gamma-1.
Product References and Citations for anti-Ntrk2 antibody	1. Xu, X., et al. Proc. Natl. Acad. Sci. U.S.A. 107(44):19126-19131(2010). 2. Lobo, M.K., et al. Science 330(6002):385-390(2010). 3. Gascon, E., et al. J. Neurosci. 30(37):12414-12423(2010). 4. Nikoletopoulou, V., et al. Nature 467(7311):59-63(2010). 5. Ohnishi, H., et al. J. Neurosci. 30(31):10472-10483(2010).
Other Notes	Small volumes of anti-Ntrk2 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 Ntrk2 purchase	MBS6327007 is an antibody targeting Ntrk2. Also known as Ntrk2, ID (Ntrk2, Trkb, BDNF/NT-3 growth factors receptor, GP145-TrkB/GP95-TrkB, Neurotrophic tyrosine kinase receptor type 2, TrkB tyrosine kinase) (AP). Reactive in Mouse, Human. Host: Rabbit.



Western Blot (WB) of anti-Ntrk2 antibody
Western Blot analysis in mouse NIH/3T3 cell line (35ug per lane), using MBS6007519 (1:1000/lane). A goat anti-rabbit IgG H&L(HRP) (1:5000) was used as the secondary antibody.



Immunohistochemistry (IHC) of anti-Ntrk2 antibody
Immunohistochemistry analysis in formalin fixed and paraffin embedded mouse brain tissue usingMBS6007519, followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of MBS6007519 for immunohistochemistry.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Ntrk2. It may not necessarily be applicable to this product.

NCBI GI #	68215970
NCBI GeneID	18212
NCBI Accession #	NP_001020245.1
NCBI Related Accession #	NP_032771.1
UniProt Primary Accession #	P15209
UniProt Secondary Accession #	Q3TUF9; Q80WU0; Q91XJ9
UniProt Related Accession #	P15209
GenBank Nucleotide #	NM_001025074.2
NCBI Official Full Name	BDNF/NT-3 growth factors receptor isoform a
NCBI Official Synonym Full Names	neurotrophic tyrosine kinase, receptor, type 2
NCBI Official Symbol	Ntrk2
NCBI Official Synonym Symbols	Tkrb; trkB; trk-B; GP145-TrkB/GP95-TrkB
UniProt Protein Name	BDNF/NT-3 growth factors receptor
UniProt Synonym Protein Names	GP145-TrkB/GP95-TrkB; Trk-B; Neurotrophic tyrosine kinase receptor type 2; TrkB tyrosine kinase
Protein Family	BDNF/NT-3 growth factors receptor
UniProt Gene Name	Ntrk2
UniProt Synonym Gene Names	Trkb; Trk-B
UniProt Entry Name	NTRK2_MOUSE
NCBI Protein Information	BDNF/NT-3 growth factors receptor; trkB tyrosine kinase; neurotrophic tyrosine receptor kinase type 2

UniProt Comments for Ntrk2	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: EC 2.7.10.1; Protein kinase, tyrosine (receptor); Membrane protein, integral; Protein kinase, TK; Kinase, protein; TK group; Trk family Cellular Component: cell surface; rough endoplasmic reticulum; integral to plasma membrane; cell; dendrite; postsynaptic density; integral to membrane; dendritic spine; terminal button; excitatory synapse; perikaryon; cytosol; postsynaptic membrane; growth cone; cell soma; membrane; axon; cytoplasm; plasma membrane; presynaptic active zone; intracellular; nerve terminal; receptor complex; endosome Molecular Function: transferase activity; brain-derived neurotrophic factor receptor activity; neurotrophin binding; protein binding; protein homodimerization activity; ephrin receptor binding; brain-derived neurotrophic factor binding; protein-tyrosine kinase activity; transferase activity, transferring phosphorus-containing groups; nucleotide binding; kinase activity; transmembrane receptor protein tyrosine kinase activity; neurotrophin receptor activity; ATP binding; protein kinase activity Biological Process: mechanoreceptor differentiation; peptidyl-tyrosine phosphorylation; retinal rod cell development; protein amino acid autophosphorylation; multicellular organismal development; regulation of neurotransmitter secretion; regulation of dendrite development; neuron migration; positive regulation of synaptic transmission, glutamatergic; protein amino acid phosphorylation; neuron differentiation; positive regulation of MAPKKK cascade; positive regulation of cell proliferation; oligodendrocyte differentiation; feeding behavior; negative regulation of neuron apoptosis; regulation of metabolic process; vasculogenesis; cell differentiation; neuromuscular junction development; central nervous system neuron development; nervous system development; regulation of GTPase activity; brain-derived neurotrophic factor receptor signaling pathway; regulation of protein kinase B signaling cascade; learning; positive regulation of peptidyl-serine phosphorylation; peripheral nervous system neuron development; positive regulation of phosphoinositide 3-kinase cascade; glutamate secretion; long-term memory; regulation of MAPKKK cascade; positive regulation of axonogenesis; cerebral cortex development; phosphorylation; transmembrane receptor protein tyrosine kinase signaling pathway
Research Articles on Ntrk2	**1.** These results suggest an important role for BDNF in regulating migration of TrkB-expressing pericytes/SMCs to promote cardiac blood vessel ensheathment and functional integrity during development.
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