NTRK3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TrkC (NTRK3), Polyclonal Antibody
Full Product Name	Anti-TrkC Antibody, Rabbit Polyclonal
Product Gene Name	anti-NTRK3 antibody
Product Synonym Names	TrkC/NTRK3 Antibody, Rabbit PAb, Antigen Affinity Purified; neurotrophic tyrosine kinase, receptor, type 3; Anti-AW125844 Antibody; Anti-Ntrk3_tv3 Antibody; Anti-TrkC Antibody
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Liquid; 0.2um filtered solution in PBS
Purity/Purification	Protein A & Antigen Affinity
Specificity	Mouse NTRK3/TrkC
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.
Molecular Weight	92,760 Da
Chromosome Location	Chromosome: 7; NC_000073.6 (78179986..78577859, complement). Location: 7 D3; 7 44.01 cM
3D Structure	ModBase 3D Structure for Q6VNS1
Immunogen	Recombinant Mouse TrkC protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Mouse TrkC/NTRK3 extracellular domain (rM TrkC). TrkC specific IgG was purified by mouse TrkC affinity chromatography .
Product Categories/Family for anti-NTRK3 antibody	Receptor Tyrosine Kinases (RTKs) Cancer Drug Targets
Applications Tested/Suitable for anti-NTRK3 antibody	ELISA (EIA)
Application Notes for anti-NTRK3 antibody	ELISA: 1:5000-1:10,000

Related Product Information for anti-NTRK3 antibody	NT-3 growth factor receptor is also known as neurotrophic tyrosine kinase receptor type 3 or TrkC tyrosine kinase or Trk-C receptor, is 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. TrkC/NTRK3 is widely expressed in the developing and adult nervous system. In later embryonic development, TrkC/NTRK3 is expressed in various structures of the CNS including the caudate-putamen, septal nuclei, cerebellum, and brainstem. Other neurotrophins include nerve growth factor(NGF), neurotrophin-3 and neurotrophin-4. In the PNS, The trkC hybridization appears to correlate, both temporally and spatially, with the outgrowth of axons toward their peripheral targets. TrkC/NTRK3 is widely expressed in the three identified branches of the mammalian nervous system and appears to correlate with the expression of NT-3, its cognate ligand. The apparent colocalization of trkC transcripts with NT-3 raises the possibility this neurotrophin exerts its trophic effects by a paracrine and/or autocrine mechanism. Signaling through this kinase leads to cell differentiation and may play a role in the development of proprioceptive neurons that sense body position. Mutations in the TrkC encoding gene have been associated with medulloblastomas, secretory breast carcinomas, and other cancers.
Product References and Citations for anti-NTRK3 antibody	Tessarollo L, et al. (1993) trkC, a receptor for neurotrophin-3, is widely expressed in the developing nervous system and in non-neuronal tissues. Development. 118(2): 463-75. Lamballe F, et al. (1994) Developmental expression of trkC, the neurotrophin-3 receptor, in the mammalian nervous system. J Neurosci. 14(1): 14-28. Klein R, et al. (1994) Disruption of the neurotrophin-3 receptor gene trkC eliminates la muscle afferents and results in abnormal movements. Nature. 368(6468): 249-51.
Other Notes	Small volumes of anti-NTRK3 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 NTRK3 purchase	MBS8111382 is an antibody targeting NTRK3. Also known as Anti-TrkC Antibody, Rabbit Polyclonal. Reactive in Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NTRK3. It may not necessarily be applicable to this product.

NCBI GI #	33413412
NCBI GeneID	18213
NCBI Accession #	NP_032772.3
UniProt Primary Accession #	Q6VNS1
UniProt Secondary Accession #	Q9Z2P9; Q9Z2Q0; A4QPD0
UniProt Related Accession #	Q6VNS1
GenBank Nucleotide #	NM_008746.5
NCBI Official Full Name	NT-3 growth factor receptor isoform a
NCBI Official Synonym Full Names	neurotrophic tyrosine kinase, receptor, type 3
NCBI Official Symbol	Ntrk3
NCBI Official Synonym Symbols	TrkC; AW125844; Ntrk3_tv3
UniProt Protein Name	NT-3 growth factor receptor
UniProt Synonym Protein Names	GP145-TrkC; Trk-C; Neurotrophic tyrosine kinase receptor type 3; TrkC tyrosine kinase
Protein Family	NT-3 growth factor receptor
UniProt Gene Name	Ntrk3
UniProt Synonym Gene Names	TrkC; Trk-C
UniProt Entry Name	NTRK3_MOUSE
NCBI Protein Information	NT-3 growth factor receptor; trk-C; GP145-TrkC; neurotrophin-3; trkC tyrosine kinase

UniProt Comments for NTRK3	Function: Receptor for neurotrophin-3 (NT-3). This is a tyrosine-protein kinase receptor. Known substrates for the Trk receptors are SHC1, PI 3-kinase, and PLC-gamma-1 By similarity. Catalytic activity: ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate. Subunit structure: Exists in a dynamic equilibrium between monomeric (low affinity) and dimeric (high affinity) structures. Binds SH2B2. Interacts with SQSTM1 and KIDINS220 By similarity. Subcellular location: Membrane; Single-pass type I membrane protein By similarity. Tissue specificity: Isoform 2 expression is restricted to specific areas in adult brain. Isoform 3 transcripts are readily detected early during embryogenesis and are expressed predominantly in adult brain and gonads. Ref.2 Post-translational modification: Ligand-mediated auto-phosphorylation By similarity. Sequence similarities: Belongs to the protein kinase superfamily. Tyr protein kinase family. Insulin receptor subfamily.Contains 2 Ig-like C2-type (immunoglobulin-like) domains.Contains 2 LRR (leucine-rich) repeats.Contains 1 LRRCT domain.Contains 1 protein kinase domain.
Research Articles on NTRK3	**1.** TrkC expression in E13.5 VCG neurons requires NeuroD and that TrkC expression may be necessary for the normal migration and innervations of those neurons.
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