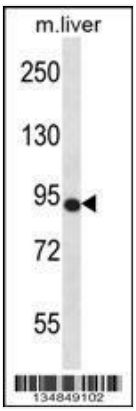
NTRK3 Antibody – Rabbit Polyclonal

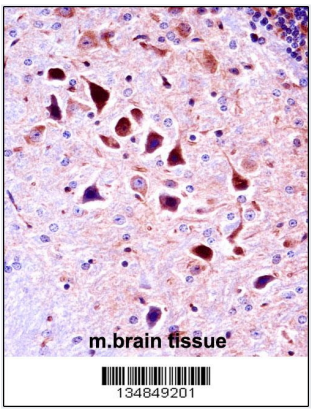
PRODUCT OVERVIEW

Product Name	Ntrk3, Polyclonal Antibody
Full Product Name	Ntrk3, NT (Ntrk3, TrkC, NT-3 growth factor receptor, GP145-TrkC, Neurotrophic tyrosine kinase receptor type 3, TrkC tyrosine kinase) (Biotin)
Product Gene Name	anti-Ntrk3 antibody
Product Synonym Names	Ntrk3; TrkC; NT-3 growth factor receptor; GP145-TrkC; Neurotrophic tyrosine kinase receptor type 3; TrkC tyrosine kinase
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. 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 after thawing and prior to removing the cap.
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	Mouse Ntrk3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 160-188 amino acids from the N-terminal region of Mouse Ntrk3.
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-Ntrk3 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-Ntrk3 antibody	Immunohistochemistry (IHC), ELISA (EIA), Western Blot (WB)
Application Notes for anti-Ntrk3 antibody	IHC: 1:10-50 ELISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-Ntrk3 antibody	Ntrk3 is a 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).
Product References and Citations for anti-Ntrk3 antibody	Gascon, E., et al. J. Neurosci. 30(37):12414-12423(2010). Nikoletopoulou, V., et al. Nature 467(7311):59-63(2010). Honma, Y., et al. Development 137(14):2319-2328(2010). Huang, T., et al. J Mol Cell Biol 2(3):152-163(2010). Li, W., et al. BMC Biol. 8, 86 (2010).
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	MBS6327020 is an antibody targeting Ntrk3. Also known as Ntrk3, NT (Ntrk3, TrkC, NT-3 growth factor receptor, GP145-TrkC, Neurotrophic tyrosine kinase receptor type 3, TrkC tyrosine kinase) (Biotin). Reactive in Mouse. Host: Rabbit.



Western Blot (WB) of anti-Ntrk3 antibody
Mouse Ntrk3 Antibody (N-term) western blot analysis in mouse liver tissue lysates (35ug/lane).This demonstrates the Ntrk3 antibody detected the Ntrk3 protein (arrow).



Immunohistochemistry (IHC) of anti-Ntrk3 antibody
Mouse Ntrk3 Antibody (N-term) (AP14627a)immunohistochemistry analysis in formalin fixed and paraffin embedded mouse brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of Mouse Ntrk3 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

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
NCBI Related Accession #	NP_877961.1
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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