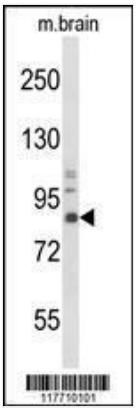
TrkA Antibody – Rabbit Polyclonal

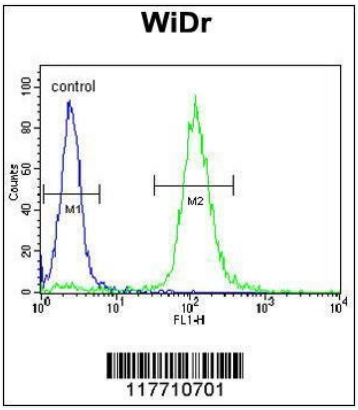
PRODUCT OVERVIEW

Product Name	TrkA, Polyclonal Antibody
Full Product Name	TrkA (NTRK1, MTC, TRK, TRKA, High affinity nerve growth factor receptor, Neurotrophic tyrosine kinase receptor type 1, TRK1-transforming tyrosine kinase protein, Tropomyosin-related kinase A, Tyrosine kinase receptor, Tyrosine kinase receptor A, gp140trk
Product Gene Name	anti-TrkA antibody
Product Synonym Gene Name	NTRK1
Product Synonym Names	NTRK1; MTC; TRK; TRKA; High affinity nerve growth factor receptor; Neurotrophic tyrosine kinase receptor type 1; TRK1-transforming tyrosine kinase protein; Tropomyosin-related kinase A; Tyrosine kinase receptor; Tyrosine kinase receptor A; gp140trk; p140-TrkA
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by saturated ammonium sulfate precipitation followed by dialysis against PBS.
Specificity	Recognizes human TrkA. Species Crossreactivity: mouse
Preparation and Storage	Store product at 4 degree C in the dark. 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. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	87,497 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (156785542..156851642). Location: 1q21-q22
OMIM	164970
3D Structure	ModBase 3D Structure for P04629
Immunogen	TrkA antibody is generated from rabbits immunized with TrkA his fusion protein
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-TrkA antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-TrkA antibody	Flow Cytometry (FC/FACS), FLISA, Immunofluorescence (IF), Western Blot (WB)
Application Notes for anti-TrkA antibody	FC/FACS: 1:10-50 FLISA: 1:1,000 IF: 1:10-50 WB: 1:50-100 Applications are based on unconjugated antibody.

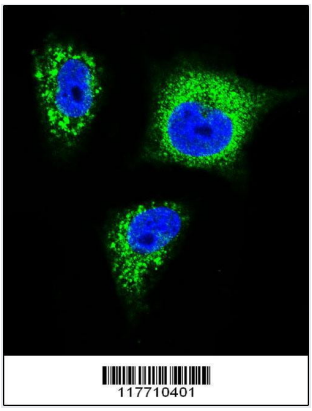
Related Product Information for anti-TrkA antibody	TRKA (also known as NTRK1)is a member of the neurotrophic tyrosine kinase receptor (NTKR) family. This kinase is a membrane-bound receptor that, upon neurotrophin binding, phosphorylates itself and members of the MAPK pathway. The presence of this kinase leads to cell differentiation and may play a role in specifying sensory neuron subtypes. Mutations in the TRKA gene have been associated with congenital insensitivity to pain, anhidrosis, self-mutilating behavior, mental retardation and cancer.
Product References and Citations for anti-TrkA antibody	Tokusashi, Y., et al., Int. J. Cancer 114(1):39-45 (2005). Schulte, J.H., et al., Oncogene 24(1):165-177 (2005). Frattini, M., et al., Oncogene 23(44):7436-7440 (2004). Tacconelli, A., et al., Cancer Cell 6(4):347-360 (2004). Florenes, V.A., et al., Am. J. Clin. Pathol. 122(3):412-420 (2004).
Other Notes	Small volumes of anti-TrkA 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 TrkA purchase	MBS6358712 is an antibody targeting TrkA. Also known as TrkA (NTRK1, MTC, TRK, TRKA, High affinity nerve growth factor receptor, Neurotrophic tyrosine kinase receptor type 1, TRK1-transforming tyrosine kinase protein, Tropomyosin-related kinase A, Tyrosine kinase receptor, Tyrosine kinase receptor A, gp140trk. Reactive in Human, Mouse. Host: Rabbit.



Western Blot (WB) of anti-TrkA antibody
Western blot analysis of TrkA Antibody in mouse brain tissue lysates (35ug/lane). TrkA (arrow) was detected using the purified Pab.



Flow Cytometry (FC/FACS) of anti-TrkA antibody
TrkA Antibody flow cytometric analysis of WiDr cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Immunofluorescence (IF) of anti-TrkA antibody
Confocal immunofluorescent analysis of TrkA Antibody with MDA-MB231 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green).DAPI was used to stain the cell nuclear (blue).

ADDITIONAL DETAILS

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

NCBI GI #	56118210
NCBI GeneID	4914

NCBI Accession #	NP_001007793.1
UniProt Primary Accession #	P04629
UniProt Secondary Accession #	P08119; Q15655; Q15656; Q5D056; Q5VZS2; Q7Z5C3; Q9UIU7; B2R6T5; B7ZM34
UniProt Related Accession #	P04629
GenBank Nucleotide #	NM_001007792.1
NCBI Official Full Name	high affinity nerve growth factor receptor isoform 3
NCBI Official Synonym Full Names	neurotrophic tyrosine kinase, receptor, type 1
NCBI Official Symbol	NTRK1
NCBI Official Synonym Symbols	MTC; TRK; TRK1; TRKA; Trk-A; p140-TrkA
UniProt Protein Name	High affinity nerve growth factor receptor
UniProt Synonym Protein Names	Neurotrophic tyrosine kinase receptor type 1; TRK1-transforming tyrosine kinase protein; Tropomyosin-related kinase A; Tyrosine kinase receptor; Tyrosine kinase receptor A; Trk-A; gp140trk; p140-TrkA
Protein Family	Trk system potassium uptake protein
UniProt Gene Name	NTRK1
UniProt Synonym Gene Names	MTC; TRK; TRKA; Trk-A
UniProt Entry Name	NTRK1_HUMAN
NCBI Protein Information	high affinity nerve growth factor receptor; gp140trk; Oncogene TRK; tyrosine kinase receptor A; tropomyosin-related kinase A; TRK1-transforming tyrosine kinase protein
NCBI Summary for TrkA	This gene encodes a member of the neurotrophic tyrosine kinase receptor (NTKR) family. This kinase is a membrane-bound receptor that, upon neurotrophin binding, phosphorylates itself and members of the MAPK pathway. The presence of this kinase leads to cell differentiation and may play a role in specifying sensory neuron subtypes. Mutations in this gene have been associated with congenital insensitivity to pain, anhidrosis, self-mutilating behavior, mental retardation and cancer. Alternate transcriptional splice variants of this gene have been found, but only three have been characterized to date. [provided by RefSeq, Jul 2008]

UniProt Comments for TrkA	TrkA: a receptor tyrosine kinase of the Trk family. High affinity receptor for nerve growth factor, neurotrophin-3 and neurotrophin-4/5 but not brain- derived neurotrophic factor. Known substrates include Shc, PI-3K, and PLC-gamma-1. Has a crucial role in the development and function of the nociceptive reception system. Two splice variant isoforms have been described. Protein type: Protein kinase, TK; Oncoprotein; EC 2.7.10.1; Membrane protein, integral; Protein kinase, tyrosine (receptor); Kinase, protein; TK group; Trk family Chromosomal Location of Human Ortholog: 1q21-q22 Cellular Component: protein complex; cell surface; integral to plasma membrane; late endosome membrane; dendrite; early endosome; cell soma; early endosome membrane; axon; late endosome; plasma membrane; cytoplasmic vesicle; receptor complex; endosome Molecular Function: neurotrophin p75 receptor binding; neurotrophin binding; protein binding; nerve growth factor receptor activity; protein homodimerization activity; ephrin receptor binding; nerve growth factor binding; transmembrane receptor protein tyrosine kinase activity; ATP binding Biological Process: circadian rhythm; axon guidance; mechanoreceptor differentiation; peptidyl-tyrosine phosphorylation; activation of MAPKK activity; nerve growth factor receptor signaling pathway; protein amino acid autophosphorylation; positive regulation of synaptic transmission, glutamatergic; protein amino acid phosphorylation; olfactory nerve development; activation of NF-kappaB transcription factor; negative regulation of cell proliferation; sympathetic nervous system development; response to radiation; learning and/or memory; small GTPase mediated signal transduction; response to axon injury; negative regulation of neuron apoptosis; response to electrical stimulus; detection of temperature stimulus involved in sensory perception of pain; response to hydrostatic pressure; aging; response to drug; response to nutrient levels; phosphoinositide-mediated signaling; adenylate cyclase activation; Sertoli cell development; detection of mechanical stimulus involved in sensory perception of pain; positive regulation of programmed cell death; positive regulation of angiogenesis; response to ethanol; phospholipase C activation; B cell differentiation; Ras protein signal transduction; response to activity; positive regulation of Ras protein signal transduction; transmembrane receptor protein tyrosine kinase signaling pathway Disease: Thyroid Carcinoma, Familial Medullary; Insensitivity To Pain, Congenital, With Anhidrosis
Research Articles on TrkA	**1.** the juxtamembrane region of p75(ICD) acts to cause a conformational change within the extracellular domain of TrkA.
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