Neurotrophic Tyrosine Kinase Receptor Type 2 (NTRK2) ELISA Kit for Cat

PRODUCT OVERVIEW

Product Name	Neurotrophic Tyrosine Kinase Receptor Type 2 (NTRK2), ELISA Kit
Full Product Name	Cat Neurotrophic Tyrosine Kinase Receptor Type 2 ELISA Kit
Product Gene Name	NTRK2 elisa kit
Species Reactivity	Cat
Preparation and Storage	Store all reagents at 2-8 degree C
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
Related Product Information for NTRK2 elisa kit	MBS077491 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Neurotrophic Tyrosine Kinase Receptor Type 2 (NTRK2) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing NTRK2. The ELISA analytical biochemical technique of the MBS077491 kit is based on NTRK2 antibody-NTRK2 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect NTRK2 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, NTRK2. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of NTRK2 elisa kit 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NTRK2. It may not necessarily be applicable to this product.

NCBI GI #	15217077
NCBI GeneID	4915
NCBI Accession #	AAK92490.1
UniProt Primary Accession #	Q16620
UniProt Secondary Accession #	Q16675; Q59GJ1; Q8WXJ5; Q8WXJ6; Q8WXJ7; B1ANZ4; B4DFV9
UniProt Related Accession #	Q16620
NCBI Official Full Name	neurotrophic tyrosine kinase receptor type 2
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 NTRK2	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 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: Membrane protein, integral; Protein kinase, TK; Kinase, protein; EC 2.7.10.1; Protein kinase, tyrosine (receptor); TK group; Trk family Chromosomal Location of Human Ortholog: 9q22.1 Cellular Component: cell surface; rough endoplasmic reticulum; integral to plasma membrane; dendritic spine; terminal button; excitatory synapse; perikaryon; cytosol; postsynaptic membrane; growth cone; presynaptic active zone; endosome membrane; 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; peptidyl-tyrosine phosphorylation; retinal rod cell development; nerve growth factor receptor signaling pathway; protein amino acid autophosphorylation; neuron migration; regulation of dendrite development; 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; vasculogenesis; inflammatory response; 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; peripheral nervous system neuron development; positive regulation of phosphoinositide 3-kinase cascade; 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 NTRK2	**1.** These results suggest that TrkB and TrkC have a tumor progressive function and may be a useful diagnostic and therapeutic target in colorectal cancer
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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