

## Recombinant Human NTRK2

Cat. No. NTRK2-31620TH Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Fragment from Human TrkB corresponding to amino acids 455-822. Expressed with Baculovirus in Sf9 insect cells using an N-terminal enzyme tag.
<b>Species</b>	Human
<b>ProteinLength</b>	455-822 a.a.
<b>Description</b>	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.
<b>Tissue specificity</b>	Isoform TrkB is widely expressed, mainly in the nervous tissue. In the CNS, expression is observed in the cerebral cortex, hippocampus, thalamus, choroid plexus, granular layer of the cerebellum, brain stem, and spinal cord. In the peripheral nervous syst
<b>Form</b>	Liquid
<b>Storage buffer</b>	Preservative: None Constituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, pH 7.5
<b>Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw

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cycles.

**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 LRRNT domain. Contains 1 prot

## GENE INFORMATION

**Gene Name** [NTRK2 neurotrophic tyrosine kinase, receptor, type 2 \[ Homo sapiens \]](#)

**Official Symbol** [NTRK2](#)

**Synonyms** NTRK2; neurotrophic tyrosine kinase, receptor, type 2; BDNF/NT-3 growth factors receptor; TRKB;

**Gene ID** [4915](#)

**mRNA Refseq** [NM\\_001007097](#)

**Protein Refseq** [NP\\_001007098](#)

**MIM** [600456](#)

**Uniprot ID** [Q16620](#)

**Chromosome Location** 9q22.1

**Pathway** Activation of TRKA receptors, organism-specific biosystem; MAPK signaling pathway, organism-specific biosystem; MAPK signaling pathway, conserved biosystem; NGF

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signalling via TRKA from the plasma membrane, organism-specific biosystem; NGF-independent TRKA activation, organism-specific biosystem;

**Function**

ATP binding; neurotrophin binding; nucleotide binding; receptor activity; transmembrane receptor protein tyrosine kinase activity;

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