

## Recombinant Human NTRK2, GST-tagged, Active

Cat. No. NTRK2-449H    Lot. No. (See product label)

### SPECIFICATION

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| <b>Product Overview</b>      | Recombinant human TRKB (455-end) was expressed by baculovirus in <i>Sf9 insect cell</i> using an N-terminal GST tag. MW = 67kDa.                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Species</b>               | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>                | Sf9 Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Protein Length</b>        | 455-end a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>           | TRKB is a member of the neurotrophic tyrosine receptor kinase (NTRK) family. TRKB is the high affinity catalytic receptor for several "neurotrophins", which are small protein growth factors that induce the survival and differentiation of distinct cell populations. TRKB is a membrane-bound receptor that, upon neurotrophin binding, phosphorylates itself and members of the MAPK pathway. Signalling through TRKB leads to cell differentiation. Mutations in the TRKB gene have been associated with obesity and mood disorders. |
| <b>Sequence</b>              | 455-end.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Applications</b>          | Kinase Assay, Western Blot.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Storage And Stability</b> | Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.                                                                                                                                                                                                                                                                                                    |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

## GENE INFORMATION

|                            |                                                                                                                                                                                                                                     |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | NTRK2 neurotrophic tyrosine kinase, receptor, type 2 [ Homo sapiens ]                                                                                                                                                               |
| <b>Synonyms</b>            | NTRK2; neurotrophic tyrosine kinase, receptor, type 2; TRKB; GP145-TrkB; OTTHUMP00000021573; OTTHUMP00000021574; OTTHUMP00000021576; OTTHUMP00000021577; tyrosine kinase receptor B; BDNF/NT-3 growth factors receptor; EC 2.7.10.1 |
| <b>Gene ID</b>             | 4915                                                                                                                                                                                                                                |
| <b>mRNA Refseq</b>         | NM_001007097                                                                                                                                                                                                                        |
| <b>Protein Refseq</b>      | NP_001007098                                                                                                                                                                                                                        |
| <b>MIM</b>                 | 600456                                                                                                                                                                                                                              |
| <b>UniProt ID</b>          | Q16620                                                                                                                                                                                                                              |
| <b>Chromosome Location</b> | 9q22.1                                                                                                                                                                                                                              |
| <b>Pathway</b>             | MAPK signaling pathway; Neurotrophin signaling pathway; Signalling by NGF                                                                                                                                                           |
| <b>Function</b>            | ATP binding; neurotrophin receptor activity; nucleotide binding; protein binding; transferase activity; transmembrane receptor protein tyrosine kinase activity                                                                     |

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