

# Active Recombinant Rat NTRK2 Protein, His-tagged, Alexa Fluor 555 conjugated

**Cat. No.** NTRK2-1095RAF555    **Lot. No.** (See product label)

## SPECIFICATION

|                                     |   |
|-------------------------------------|---|
| <b>Product Overview</b>             | Alexa Fluor 555 conjugated recombinant rat NTRK2 (Q63604-Isoform T1) (Met1-His429) was expressed with a polyhistidine tag at the C-terminus.  |
| <b>Species</b>                      | Rat   |
| <b>Source</b>                       | HEK293  |
| <b>ProteinLength</b>                | 409   |
| <b>Form</b>                         | Lyophilized   |
| <b>Bio-activity</b>                 | Measured by its binding ability in a functional ELISA. Immobilized rat NTRK2-His at 10 µg/mL (100 µL/well) can bind biotinylated mouse BDNF, The EC50 of biotinylated mouse BDNF is 12.2-28.6 ng/mL.                                      |
| <b>Molecular Mass</b>               | The recombinant rat NTRK2 comprises 409 amino acids and predicts a molecular mass of 47.1 kDa. The apparent molecular mass of the recombinant protein is approximately 67 kDa in SDS-PAGE under reducing conditions due to glycosylation. |
| <b>N-terminal Sequence Analysis</b> | Cys 32  |
| <b>Endotoxin</b>                    | < 1.0 EU/ µg of the protein as determined by the LAL method.  |

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|                       |   |
|-----------------------|---|
| <b>Purity</b>         | > 95 % as determined by SDS-PAGE  |
| <b>Characteristic</b> | Disulfide-linked homodimer<br>Labeled with Alexa Fluor 555 via amines<br>With an excitation and emission maximum of 555/565 nm, Alexa Fluor 555 can be efficiently excited using a 543 nm He-Ne laser line and detected under standard TRITC/Cy3 filters. |
| <b>Stability</b>      | Samples are stable for up to 12 months from date of receipt at -70 centigrade.  |
| <b>Storage</b>        | Store it under sterile conditions at -20 to-70 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.  |
| <b>Storage Buffer</b> | Lyophilized from sterile PBS, pH 7.4, 5%-8% trehalose and mannitol.   |
| <b>Reconstitution</b> | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.   |
| <b>Conjugation</b>    | Alexa Fluor 555   |

## GENE INFORMATION

|                        |   |
|------------------------|---|
| <b>Gene Name</b>       | <a href="#">Ntrk2 neurotrophic tyrosine kinase, receptor, type 2 [ Rattus norvegicus ]</a>  |
| <b>Official Symbol</b> | <a href="#">NTRK2</a>   |
| <b>Synonyms</b>        | NTRK2; neurotrophic tyrosine kinase, receptor, type 2; BDNF/NT-3 growth factors receptor; trk-B; GP145-TrkB/GP95-TrkB; trkB tyrosine kinase; Neural receptor protein-tyrosine kinase (trkB); Tkrb; trkB; TRKB1; RATTRKB1; |

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|                |              |
|----------------|--------------|
| Gene ID        | 25054        |
| mRNA Refseq    | NM_001163168 |
| Protein Refseq | NP_001156640 |

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