

Datasheet for ABIN7197182

**TRKB Protein (His tag)**[Go to Product page](#)**1** Image

## Overview

Quantity:	20 µg
Target:	TRKB (NTRK2)
Origin:	Rat
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This TRKB protein is labelled with His tag.

## Product Details

Purpose:	Recombinant Rat TrkB/NTRK2 Protein (His Tag)(Active)
Sequence:	Met1-His429
Characteristics:	A DNA sequence encoding the rat NTRK2 (Q63604-Isoform T1) (Met1-His429) was expressed with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method
Biological Activity Comment:	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.

## Target Details

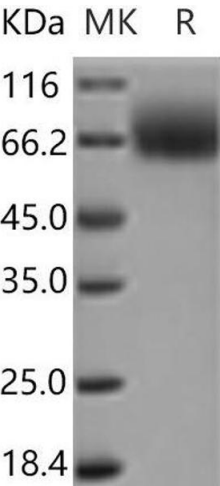
Target:	TRKB (NTRK2)
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## Target Details

Alternative Name:	TrkB/NTRK2 ( <a href="#">NTRK2 Products</a> )
Background:	<p>Background: TrkB receptor also known as TrkB tyrosine kinase or BDNF/NT-3 growth factors receptor or neurotrophic tyrosine kinase, receptor, type 2 (NTRK2) is a single transmembrane catalytic receptors with intracellular tyrosine kinase activity. TrkB/NTRK2 is a member of the neurotrophic tyrosine receptor kinase (NTRK) family. TrkB tyrosine kinase (TrkB) or NTRK2 is coupled to the Ras, Cdc42/Rac/RhoG, MAPK, PI3-K and PLCgamma signaling pathways. There are four members of the Trk family; TrkA, TrkB and TrkC and a related p75NTR receptor. Each family member binds different neurotrophins with varying affinities. TrkB/NTRK has highest affinity for brain-derived neurotrophic factor (BDNF) and is involved in neuronal plasticity, longterm potentiation and apoptosis of CNS neurons. Other neurotrophins include nerve growth factor(NGF), neurotrophin-3 and neurotrophin-4. TrkB/NTRK 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 TrkB/NTRK have been associated with obesity and mood disorders.</p> <p><a href="#">Immune Checkpoint</a> <a href="#">Immunotherapy</a> <a href="#">Cancer Immunotherapy</a> <a href="#">Targeted Therapy</a></p> <p>Synonym: NTRK2;Trkb</p>
Molecular Weight:	47.1 kDa
Pathways:	<a href="#">RTK Signaling</a> , <a href="#">Neurotrophin Signaling Pathway</a> , <a href="#">cAMP Metabolic Process</a> , <a href="#">Skeletal Muscle Fiber Development</a> , <a href="#">Feeding Behaviour</a> , <a href="#">Dicarboxylic Acid Transport</a>

## Application Details

Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	<p>Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.</p> <p>Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at &lt; -20°C for 3 months.</p>



Western Blotting

Image 1.