

Datasheet for ABIN7320394

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

Overview

Quantity:	50 µg
Target:	TRKB (NTRK2)
Origin:	Mouse
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 Mouse TrkB/NTRK2 Protein (His Tag)(Active)
Sequence:	Met 1-His 429
Characteristics:	A DNA sequence encoding the extracellular domain of mouse NTRK2 (P15209-2) (Met 1-His 429) was expressed, with a C-terminal polyhistidine tag.
Purity:	> 98 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.
Biological Activity Comment:	1. Measured by its binding ability in a functional ELISA.2. Immobilized recombinant Mouse/Human BDNF Protein (Native) at 10 µg/ml (100 µl/well) can bind biotinylated mouse TrkB-His with a linear range of 10-80 ng/ml.

Target Details

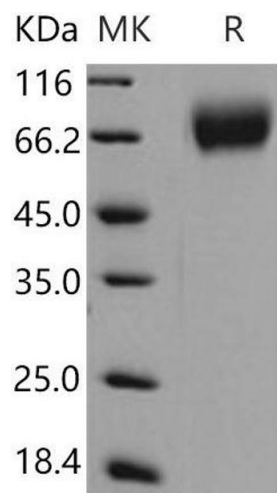
Target:	TRKB (NTRK2)
---------	--------------

Target Details

Alternative Name:	TrkB/NTRK2 (NTRK2 Products)
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>Immune Checkpoint Immunotherapy Cancer Immunotherapy Targeted Therapy</p> <p>Synonym: GP145-TrkB/GP95-TrkB;Tkrb;trk-B;trkB</p>
Molecular Weight:	46 kDa
Pathways:	RTK Signaling , Neurotrophin Signaling Pathway , cAMP Metabolic Process , Skeletal Muscle Fiber Development , Feeding Behaviour , Dicarboxylic Acid Transport

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 < -20°C for 3 months.</p>



Western Blotting

Image 1.