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Datasheet for ABIN7321090 TRKA Protein (His tag)

Image



Overview

Quantity:	100 µg
Target:	TRKA (NTRK1)
Origin:	Rat
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This TRKA protein is labelled with His tag.

Product Details

Purpose:	Recombinant Rat TrkA/NTRK1 Protein (His Tag)(Active)
Sequence:	Met1-Pro418
Characteristics:	A DNA sequence encoding the rat NTRK1 (Met1-Pro418) was expressed with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per μ g of the protein as determined by the LAL method
Biological Activity Comment:	Measured by its ability to inhibit NGF-induced proliferation of TF-1 human erythroleukemic cells. The ED50 for this effect is typically 0.2-0.8 μ g/mL in the presence of 10 ng/mL of recombinant mouse NGF.

Target Details

Target:

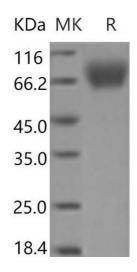
TRKA (NTRK1)

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Target Details	
Alternative Name:	TrkA/NTRK1 (NTRK1 Products)
Background:	Background: TRKA is a member of the neurotrophic tyrosine kinase receptor (NTKR) family. It is a membrane-bound receptor that, upon neurotrophin binding, phosphorylates itself and members of the MAPK pathway. Isoform TrkA-III promotes angiogenesis and has oncogenic activity when overexpressed. Isoform TrkA-I is found in most non-neuronal tissues. Isoform TrkA-II is primarily expressed in neuronal cells. TrkA-III is specifically expressed by pluripotent neural stem and neural crest progenitors. The presence of NTRK1 leads to cell differentiation and may play a role in specifying sensory neuron subtypes. Mutations in TRKA gene have been associated with congenital insensitivity to pain, anhidrosis, self-mutilating behavior, mental retardation and cancer. It was originally identified as an oncogene as it is commonly mutated in cancers, particularly colon and thyroid carcinomas. TRKA is required for high-affinity binding to nerve growth factor (NGF), neurotrophin-3 and neurotrophin-4/5 but not brain-derived neurotrophic factor (BDNF). Known substrates for the Trk receptors are SHC1, PI 3-kinase, and PLC-gamma-1. NTRK1 has a crucial role in the development and function of the nociceptive reception system as well as establishment of thermal regulation via sweating. It also activates ERK1 by either SHC1- or PLC-gamma-1-dependent signaling pathway. Defects in NTRK1 are a cause of congenital insensitivity to pain with anhidrosis and thyroid papillary carcinoma.Immune Checkpoint Immunotherapy Cancer Immunotherapy Targeted Therapy Synonym: NTRK1;Trk;Trka
Molecular Weight:	43.7 kDa
NCBI Accession:	NP_067600
Pathways:	RTK Signaling, Neurotrophin Signaling Pathway, cAMP Metabolic Process
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:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.

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Images



Western Blotting

Image 1.

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