

## Datasheet for ABIN7317670 TRKA Protein (AA 194-413) (His tag)



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Overview

Endotoxin Level:

Quantity:	100 µg
Target:	TRKA (NTRK1)
Protein Characteristics:	AA 194-413
Origin:	Human
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 Human TrkA/NTRK1 Protein (aa 194-413, His Tag)(Active)
Sequence:	Pro 194-Glu 413
Characteristics:	A DNA sequence encoding the amino acid sequence (Pro 194-Glu 413) of human NTRK1

	(NP_002520.2), corresponding to the Ig-like C2-type 1 & 2 domains, was expressed and purified,
	with a N-terminal polyhistidine tag.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Biological Activity Comment: Measured by its ability to inhibit NGF-induced proliferation of TF1 human erythroleukemic cells. The ED50 for this effect is typically 0.5-4 µg/ml in the presence of 10 ng/mL of human NGF.

< 1.0 EU per  $\mu$ g as determined by the LAL method.

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Target Details	
Target:	TRKA (NTRK1)
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: MTC;p140-TrkA;TRK;Trk-A;TRK1;TRKA
Molecular Weight:	26 kDa
NCBI Accession:	NP_002520
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

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Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. 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.

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