

Datasheet for ABIN7317671 TRKA Protein (AA 285-413) (His tag)



Overview

Quantity:	100 µg
Target:	TRKA (NTRK1)
Protein Characteristics:	AA 285-413
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TRKA protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human TrkA/NTRK1 Protein (aa 285-413, His Tag)
Sequence:	Pro 285-Glu 413
Characteristics:	A DNA sequence encoding the amino acid sequence (Pro 285-Glu 413) of human NTRK1 (NP_002520.2), corresponding to the Ig-like C2-type 2 domain, was expressed and purified, with a N-terminal polyhistidine tag.
Purity:	> 97 % as determined by reducing SDS-PAGE.

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

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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:	15.1 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 50 mM Tirs, 200 mM NaCl, pH 8.0
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.

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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