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# **TRKA Protein (Fc Tag)**





#### 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 Fc Tag.

### **Product Details**

Purpose:	Recombinant Rat TrkA/NTRK1 Protein (Fc Tag)(Active)	
Sequence:	Met1-Pro418	
Characteristics:	A DNA sequence encoding the rat NTRK1 (P35739-Isoform TrkA-II)(Met1-Pro418) was expressed with the Fc region of human IgG1 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 ability to inhibit NGF-induced proliferation of TF-1 human erythroleukemic cells. The ED50 for this effect is typically 0.01-0.1 µg/mL in the presence of 10 ng/mL of recombinant mouse NGF.	

# **Target Details**

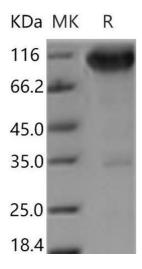
Target: TRKA (NTRK1)

# **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:	69.2 kDa
UniProt:	P35739
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.

Reconstituted protein solution can be stored at  $4-8^{\circ}$ C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

## **Images**



### **Western Blotting**

Image 1.