



## Datasheet for ABIN7320046 TRKA Protein (Fc Tag)



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### 1 Image

#### Overview

Quantity:	100 µg
Target:	TRKA (NTRK1)
Origin:	Mouse
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 Mouse TrkA/NTRK1 Protein (Fc Tag)(Active)
Sequence:	Met1-Gly420
Characteristics:	A DNA sequence encoding the mouse NTRK1 (Met1-Gly420) was expressed with the Fc region of human IgG1 at the C-terminus.
Purity:	> 90 % 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 0.02-0.08 µg/mL in the presence of 10 ng/mL of recombinant mouse NGF.

#### Target Details

Target:	TRKA (NTRK1)
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## Target Details

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Alternative Name: TrkA/NTRK1 ([NTRK1 Products](#))

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Background: TRKA is a member of the neurotrophic tyrosine kinase receptor (NTRK) 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: C80751;Tkr;trk;TrkA

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Molecular Weight: 69.2 kDa

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NCBI Accession: [NP\\_001028296](#)

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Pathways: [RTK Signaling, Neurotrophin Signaling Pathway, cAMP Metabolic Process](#)

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## Application Details

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Restrictions: For Research Use only

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## Handling

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Format: Lyophilized

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Reconstitution: Please refer to the printed manual for detailed information.

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Buffer: Lyophilized from sterile PBS, pH 7.4

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Storage: 4 °C,-20 °C,-80 °C

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

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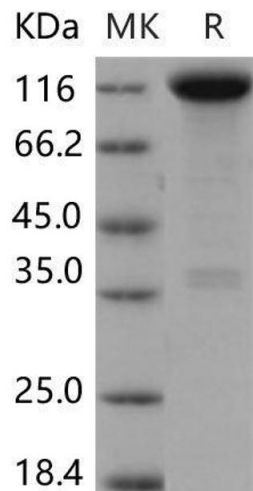
## Handling

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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.

## Images

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### Western Blotting

Image 1.