

Product datasheet

Recombinant Human TrkB protein ab174057

1 Image

Description

Product name	Recombinant Human TrkB protein
Purity	> 95 % SDS-PAGE.
Endotoxin level	< 1.000 Eu/μg
Expression system	HEK 293 cells
Accession	Q16620
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	<p>CPTSCKCSA SRWCSDPSP GVAFFPRLEP NSVDPENITE IFIANQKRLE IINEDDVEAY VGLRNLTVMD SGLKFVAHKA FLKNSNLQHI NFTRNKLTSL SRKHFRHLDL SELILVGNPF TCSCDIMWIK TLQEAKSSPD TQDLYCLNES SKNIPLANLQ IPNCGLPSAN LAAPNLVVEE GKSITLSCSV AGDPVPNMYW DVGNLVSKHM NETSHTQGSL RITNISSDDS GKQISCVAEN LVGEDQDSVN LTVHFAPTIT FLESPTSDHH WCIPFTVKGK PKPALQWFYN GAILNESKYI CTKIHVTNHT EYHGCLQLDN PTHMNNGDYT LIAKNEYGKD EKQISAHFMG WPGIDDGANP NYPDVIYEDY GTAANDIGDT TNRSNEIPST DVTDKGTGREH</p>
Predicted molecular weight	45 kDa including tags
Amino acids	32 to 430
Tags	His tag C-Terminus
Additional sequence information	Extracellular domain.

Specifications

Our [Abpromise guarantee](#) covers the use of **ab174057** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications SDS-PAGE

Form Lyophilized

Preparation and Storage

Stability and Storage Shipped at 4°C. Store at 4°C prior to reconstitution. Store at -20°C or -80°C. For long term storage it is recommended to add a carrier protein on reconstitution (0.1% HSA or BSA).

pH: 7.40

Constituents: 5% Trehalose, 95% PBS

Reconstitution Reconstitute with sterile deionized water to a concentration of 400 µg/ml.

General Info

Function Receptor for brain-derived neurotrophic factor (BDNF), neurotrophin-3 and neurotrophin-4/5 but not nerve growth factor (NGF). Involved in the development and/or maintenance of the nervous system. This is a tyrosine-protein kinase receptor. Known substrates for the TRK receptors are SHC1, PI-3 kinase, and PLC-gamma-1.

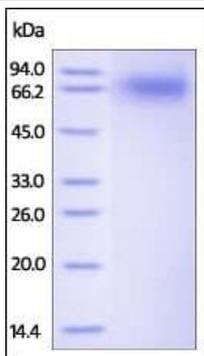
Tissue specificity Isoform TrkB is widely expressed, mainly in the nervous tissue. In the CNS, expression is observed in the cerebral cortex, hippocampus, thalamus, choroid plexus, granular layer of the cerebellum, brain stem, and spinal cord. In the peripheral nervous system, it is expressed in many cranial ganglia, the opthalmic nerve, the vestibular system, multiple facial structures, the submaxillary glands, and dorsal root ganglia. Isoform TrkB-T1 is expressed in multiple tissues, mainly in brain, pancreas, kidney and heart. Isoform TrkB-T-Shc is predominantly expressed in brain.

Sequence similarities Belongs to the protein kinase superfamily. Tyr protein kinase family. Insulin receptor subfamily. Contains 2 Ig-like C2-type (immunoglobulin-like) domains. Contains 2 LRR (leucine-rich) repeats. Contains 1 LRRCT domain. Contains 1 LRRNT domain. Contains 1 protein kinase domain.

Post-translational modifications Ligand-mediated auto-phosphorylation.

Cellular localization Membrane.

Images



SDS-PAGE - Recombinant Human TrkB protein
(ab174057)

The purity of ab174057 was determined by reduced SDS-PAGE and staining overnight with Coomassie Blue. DTT-reduced ab174057 migrates at 60-90 kDa due to glycosylation (predicted MW with tag of 45kDa).

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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