

TrkB(Phospho-Tyr706) Antibody

Catalog No: #11328



Package Size: #11328-1 50ul #11328-2 100ul

Orders: order@signalwayantibody.com

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Description

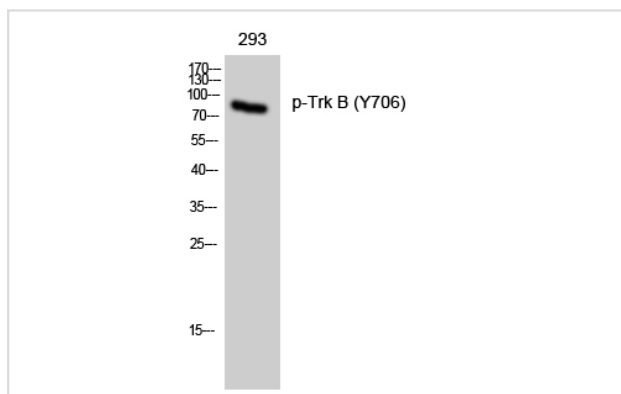
Product Name	TrkB(Phospho-Tyr706) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.
Applications	WB
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of TrkB only when phosphorylated at tyrosine 706.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of tyrosine 706 (T-D-Y P-Y-R) derived from Human TrkB.
Target Name	TrkB
Modification	Phospho
Other Names	BDNF/NT-3 growth factors receptor precursor; EC 2.7.10.1; GP145-TrkB; GP145-TrkB/GP95-TrkB; NTRK2
Accession No.	Swiss-Prot: Q16620NCBI Protein: NP_001007098.1
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

Application Details

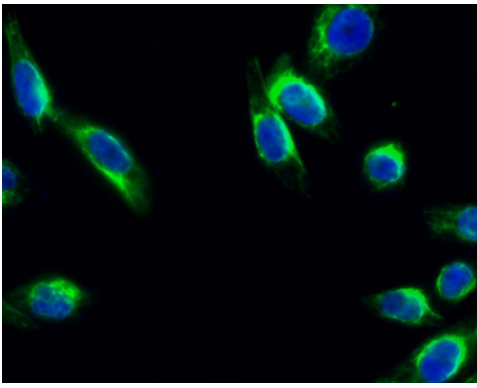
Predicted MW: 140kd

Western blotting: 1:500~1:1000

Images



Western Blot analysis of 293 cells using Phospho-Trk B (Y706) Polyclonal Antibody .



Immunofluorescence analysis of HeLa cell.

Background

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.

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Cai D, et al. *Physiol Genomics*. 2006 Feb 14;24(3):191-7.

Published Papers

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Neurobiol Dis On2023 Oct 15 by Esther Garcia-a-Garcia-a , Alba Ramon-Lainez et al.. PMID:37714309, (2023)

[PMID:37714309](#)

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InJ Extracell Vesicles On2023 Sep by Julia Solana-Balaguer , Genes Campoy-Campos et al.. PMID:37743539, (2023)

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el at., 17 β -estradiol activation of dorsal hippocampal TrkB is independent of increased mature BDNF expression and is required for enhanced memory consolidation in female mice. In *Psychoneuroendocrinology* on 2021 Mar by Kellie S Gross, Randie L Alf, et al.. PMID:33352471, (2021)

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el at., Sex-Dependent Effects of Environmental Enrichment on Spatial Memory and Brain-Derived Neurotrophic Factor (BDNF) Signaling in a Developmental Two-Hit Mouse Model Combining BDNF Haploinsufficiency and Chronic Glucocorticoid Stimulation. In *Front Behav Neurosci* On 2018 Oct 9 by Adrienne M. Grech, Udani Ratnayake et al.. PMID: 30356704, (2018)

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el at., ERK5 Signaling Is Required for TrkB-Mediated Hippocampal Neuroprotection in Female Neonatal Mice after Hypoxic Ischemic Encephalopathy. In *eNeuro* on 2016 Jan 28 by Ulas Cikla, Vishal Chanana, et al.. PMID: 26839918, (2016)

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el at., A small molecule TrkB/TrkC neurotrophin receptor co-activator with distinctive effects on neuronal survival and process

outgrowth. In *Neuropharmacology* on 2016 Nov by Tao Yang, Stephen M Massa, et al.. PMID:27334657, , (2016)

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el at., Sex-specific disruptions in spatial memory and anhedonia in a reeler rat model correspond with alterations in hippocampal brain-derived neurotrophic factor expression and signaling. In *Hippocampus* on 2014 Oct by Rachel A Hill, Maren Klug, et al.. PMID:24802968, , (2014)

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Rachel A. Hill, Yee-Wen Candace Wu, Andrea Gogos et al., Sex-dependent alterations in BDNF-TrkB signaling in the hippocampus of reelin heterozygous mice: a role for sex steroid hormones., *Neurochem.*, 126:389--399(2013)

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Note: This product is for in vitro research use only and is not intended for use in humans or animals.