

TrkB(Phospho-Tyr705) Antibody

Catalog No: #11328



Package Size: #11328-1 50ul #11328-2 100ul #11328-4 25ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

Description

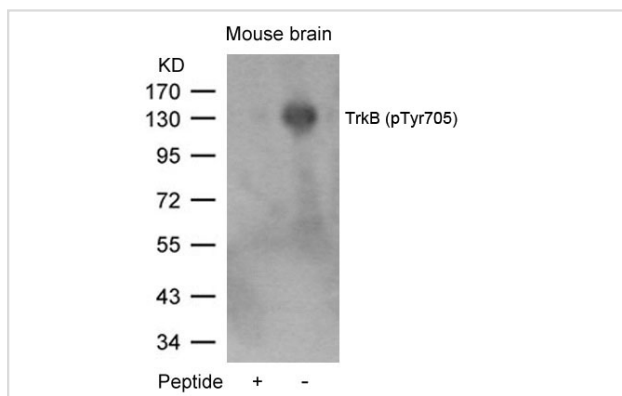
Product Name	TrkB(Phospho-Tyr705) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific 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 705.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of tyrosine 705 (T-D-Y P-Y-R) derived from Human TrkB.
Target Name	TrkB
Modification	Phospho-Tyr705
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 extracts from mouse brain tissue using TrkB(Phospho-Tyr705) Antibody #11328 and the same antibody preincubated with blocking peptide.

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.

Woronowicz A, et al. *Glycobiology*. 2007 Jan;17(1):10-24.

Mojsilovic-Petrovic J, et al. *J Neurosci*. 2006 Sep 6;26(36):9250-63.

Lewis MA, et al. *Mol Pharmacol*. 2006 Apr;69(4):1396-404.

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

Published Papers

R. A. Hill, Y. W. C. Wu, P. Kwek et al., Modulatory Effects of Sex Steroid Hormones on Brain-Derived Neurotrophic Factor-Tyrosine Kinase B Expression during Adolescent Development in C57Bl/6 Mice, *Journal of Neuroendocrinology*, 24, 774B-C788(2012)

[PMID:22221196](#)

Rachel A. Hill, Maarten van den Buuse et al., Sex-dependent and region-specific changes in TrkB signaling in BDNF heterozygous mice., *Brain Research*, 1384:51-60(2011)

[PMID:21281620](#)

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)

[PMID:23414458](#)

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