TrkB(Phospho-Tyr705) Antibody

Catalog No: #11328

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

Overview

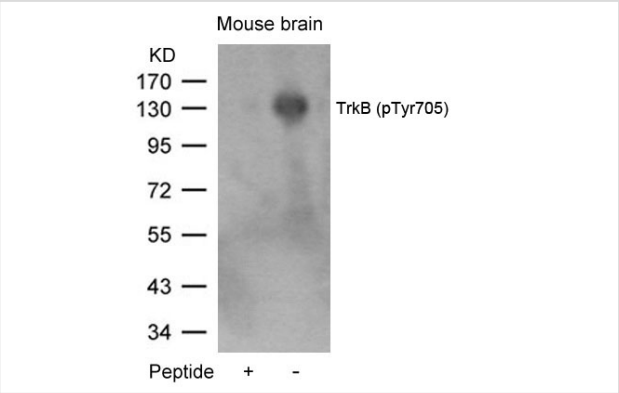
Product Name	TrkB(Phospho-Tyr705) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Applications	WB
Species Reactivity	Hu Ms Rt
Immunogen Type	Peptide-KLH
Target Name	TrkB
Modification	Phospho-Tyr705
Alternative Names	BDNF/NT-3 growth factors receptor precursor; EC 2.7.10.1; GP145-TrkB; GP145-TrkB/GP95-TrkB; NTRK2

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.

Descriptions

Immunogen	Peptide sequence around phosphorylation site of tyrosine 705 (T-D-Y P-Y-R) derived from Human TrkB.
Specificity	The antibody detects endogenous level of TrkB only when phosphorylated at tyrosine 705.
Purifiction	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 chromatogramphy using non-phosphopeptide.
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), 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.
Accession NO.	Swiss-Prot: Q16620NCBI Protein: NP _001007098.1

Related Information

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 el at., 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 el at., Sex-dependent and region-specific changes in TrkB signaling in BDNF heterozygous mice., Brain Research, 1384:51-60(2011)

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

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