

## ARG52451 anti-TrkB antibody

Package: 50 µl  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes TrkB
Tested Reactivity	Rat
Tested Application	WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	TrkB
Species	Rat
Immunogen	Synthetic peptide corresponding to amino acid residues from the C-terminal region conjugated to KLH
Conjugation	Un-conjugated
Alternate Names	TRKB; Neurotrophic tyrosine kinase receptor type 2; Trk-B; trk-B; Tropomyosin-related kinase B; TrkB tyrosine kinase; BDNF/NT-3 growth factors receptor; GP145-TrkB; EC 2.7.10.1

### Application Instructions

Application table	Application	Dilution
	WB	1:1000
Application Note	Specific for the ~93 kDa TrkB protein in Western blots. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

### Properties

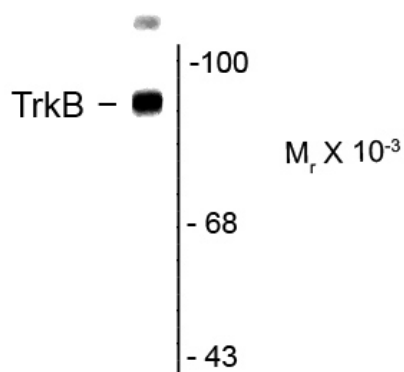
Form	Liquid
Purification	Affinity Purified
Buffer	10 mM HEPES (pH 7.5), 150 mM NaCl, 0.1 mg/ml BSA and 50% Glycerol
Stabilizer	0.1 mg/ml BSA, 50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

### Bioinformation

Database links	<a href="#">GeneID: 25054 Rat</a>
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Gene Symbol	Ntrk2
Gene Full Name	neurotrophic tyrosine kinase, receptor, type 2
Background	Tropomyosin-receptor-kinase (TRK) receptors are members of the receptor tyrosine kinase family and include TrkA, TrkB and TrkC. Each of these receptor types has different binding affinities to the neurotrophins nerve growth factor (NGF), brain-derived neurotrophic factor (BDNF) and neurotrophin 3 (NT-3). TrkB has the highest affinity to binding BDNF which plays critical roles in the function and survival of neurons in the CNS (Soppet et al., 1991; Klein et al., 1991). Additionally, alterations in expression of TrkB have been associated with Alzheimer's disease (Ferrer et al., 1999; Chen et al., 2008).
Research Area	Cancer antibody; Metabolism antibody; Neuroscience antibody
Calculated Mw	92 kDa
PTM	Phosphorylated. Undergoes ligand-mediated autophosphorylation that is required for interaction with SHC1 and PLCG1 and other downstream effectors. Isoform TrkB-T-Shc is not phosphorylated. Ubiquitinated. Undergoes polyubiquitination upon activation; regulated by NGFR. Ubiquitination regulates the internalization of the receptor (By similarity).

## Images



ARG52451 anti-TrkB antibody WB image

Western Blot: rat synaptic membrane preparation showing specific immunolabeling of the ~ 93k TrkB protein stained with ARG52451 TrkB antibody.