



**RABBIT ANTI-TrkB
(Tyrosine Kinase Receptor B)
POLYCLONAL ANTIBODY**

CATALOG NUMBER:	AB9872
LOT NUMBER:	
QUANTITY:	50 µL
SPECIFICITY:	trkB [BDNF/NT-4/5 growth factor receptor; tyrosine kinase receptor B]. The immunogen sequence was chosen to avoid cross reactivity with trkA or trkC.
BACKGROUND:	The mammalian Trk family of receptor tyrosine kinases consists of three principle transmembrane proteins. The receptors can be activated by one or more of four neurotrophins - NGF, BDNF, NT3 and NT4/5. The TrkB family of transmembrane proteins serves as receptors for BDNF and NT-4/5 and these neurotrophins regulate biological responses such as cell survival, proliferation and differentiation in normal and neoplastic neuronal cells.
IMMUNOGEN:	Extracellular domain of the recombinant mouse receptor expressed in mammalian cells.
APPLICATIONS:	Immunohistochemistry: 1:3,000. The antibody has been used successfully on rat dorsal root ganglion and trigeminal ganglia in the rat spinal cord (cryostat free-floating sections). Suggested fixative is 4% paraformaldehyde. Not suitable for Western blot. Optimal working dilutions must be determined by end user.
SPECIES REACTIVITIES:	Rat and mouse. Other species have not yet been tested. It is expected to react with a wide range of mammalian species, based on the high sequence homology.
FORMAT:	Rabbit serum.
PRESENTATION:	Lyophilized. Reconstitute with 50 µL of sterile distilled water. Centrifuge to remove any insoluble material. Contains no preservative.
STORAGE/HANDLING:	Maintain lyophilized material frozen at -20°C to -70°C for up to 12 months after date of receipt. After reconstitution maintain at -20°C in undiluted aliquots for up to 6 months. Avoid repeated freeze/thaw cycles. Glycerol (1:1, ACS or better grade) can be added for additional stability.
RELATED REFERENCES:	Gines S, Bosch M, Marco S, Gavalda N, Diaz-Hernandez M, Lucas JJ, Canals JM, Alberch J (2006). Reduced expression of the TrkB receptor in Huntington's disease mouse models and in human brain. <i>Eur J Neurosci.</i> 23 (3) pp. 649-658.



Important Note: *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 μ L or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

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PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION

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