

Polyclonal Anti-NTRK3 Antibody

Catalog Number: PA1992

Description

Gene Name	neurotrophic tyrosine kinase, receptor, type 3
Recommended Protein Name	NT-3 growth factor receptor
Lot No.	0191312c019218
Size	100µg/vial
Form	lyophilized
Ig type	Rabbit IgG
Specificity	No cross reactivity with other proteins.
Purification	Immunogen affinity purified.
Species	Reacts with: human, mouse, rat
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human NTRK3(172-186aa QLWQEQGEAKLNSQN), different from the related rat and mouse sequences by three amino acids.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .

Application

	Concentration	Tested Species	Predicted Species	Antigen Retrieval
Western blot	0.1-0.5µg/ml	Hu, Mouse, Rat	-	-

Tested Species: In-house tested species with positive results.

Predicted Species: Species predicted to be fit for the product based on sequence similarities.

Other applications have not been tested.

Optimal dilutions should be determined by end users.

Preparation and storage

Reconstitution: 0.2ml of distilled water will yield a concentration of 500µg/ml.

Storage: At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time.

Avoid repeated freezing and thawing.

Relevant detection systems

Boster provides a series of assays reacted with primary antibodies. Antibody can be supported by chemiluminescence kit EK1002 in WB.

Background

NTRK3 (Neurotrophic Tyrosine Kinase Receptor Type 3), also known as TRKC, is a protein that in humans is encoded by the NTRK3 gene. By PCR analysis of a somatic cell hybrid panel and by fluorescence in situ hybridization with the cDNA clone, McGregor et al. (1994) mapped the NTRK3 gene to 15q24-q25. Lamballe et al. (1991) isolated and characterized TRKC, a member of the TRK family of tyrosine protein kinase genes. They found that TRKC is preferentially expressed in the brain; in situ hybridization studies showed transcripts in the hippocampus, cerebral cortex, and the granular cell layer of the cerebellum. By functional studies in HeLa cells, Muinos-Gimeno et al. (2009) demonstrated that 5 miRNAs regulate the truncated form of NTRK3.

Reference

1. Lamballe, F., Klein, R., Barbacid, M. TRKC, a new member of the TRK family of tyrosine protein kinases, is a receptor for neurotrophin-3. *Cell* 66: 967-979, 1991.
2. McGregor, L. M., Baylin, S. B., Griffin, C. A., Hawkins, A. L., Nelkin, B. D. Molecular cloning of the cDNA for human TrkC (NTRK3), chromosomal assignment, and evidence for a splice variant. *Genomics* 22: 267-272, 1994.
3. Muinos-Gimeno, M., Guidi, M., Kagerbauer, B., Martin-Santos, R., Navines, R., Alonso, P., Menchon, J. M., Gratacos, M., Estivill, X., Espinosa-Parrilla, Y. Allele variants in functional microRNA target sites of the neurotrophin-3 receptor gene (NTRK3) as susceptibility factors for anxiety disorders. *Hum. Mutat.* 30: 1062-1071, 2009.