

Anti-TrkC Antibody
Catalog # ABO11301**Specification**

Anti-TrkC Antibody - Product Information

Application	WB, IHC
Primary Accession	O16288
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for NT-3 growth factor receptor(NTRK3) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-TrkC Antibody - Additional Information

Gene ID 4916

Other Names

NT-3 growth factor receptor, 2.7.10.1, GP145-TrkC, Trk-C, Neurotrophic tyrosine kinase receptor type 3, TrkC tyrosine kinase, NTRK3, TRKC

Calculated MW

94428 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Rat, Mouse, By Heat
Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

Subcellular Localization

Membrane; Single-pass type I membrane protein.

Tissue Specificity

Widely expressed but mainly in nervous tissue. Isoform 2 is expressed at higher levels in adult brain than in fetal brain.

Protein Name

NT-3 growth factor receptor

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence at the N-terminus of human TrkC(167-182aa DIRWMQLWQEQGEAKL), different from the related mouse and rat sequences by one amino acid.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

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.

Sequence Similarities

Belongs to the protein kinase superfamily. Tyr protein kinase family. Insulin receptor subfamily.

Anti-TrkC Antibody - Protein Information

Name NTRK3

Synonyms TRKC

Function

Receptor tyrosine kinase involved in nervous system and probably heart development. Upon binding of its ligand NTF3/neurotrophin-3, NTRK3 autophosphorylates and activates different signaling pathways, including the phosphatidylinositol 3-kinase/AKT and the MAPK pathways, that control cell survival and differentiation.

Cellular Location

Membrane; Single-pass type I membrane protein.

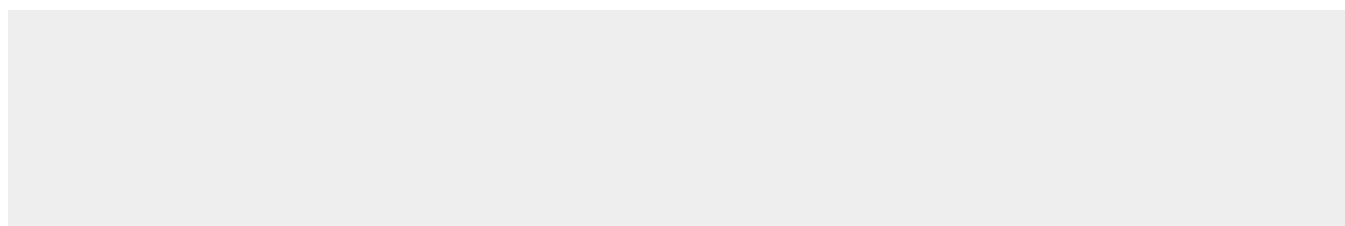
Tissue Location

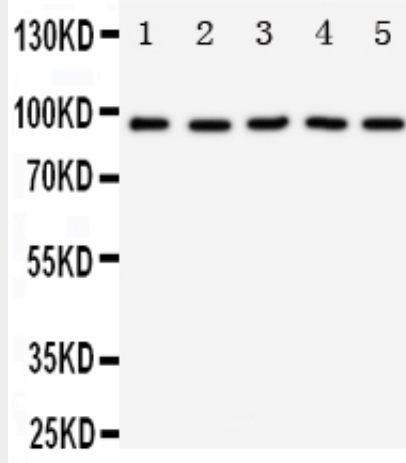
Widely expressed but mainly in nervous tissue. Isoform 2 is expressed at higher levels in adult brain than in fetal brain

Anti-TrkC Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

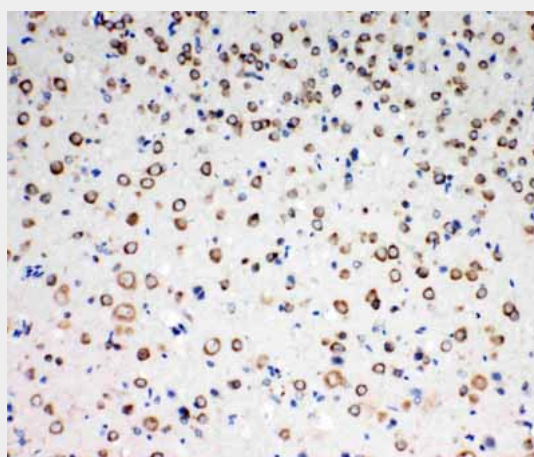
Anti-TrkC Antibody - Images



Anti-TrkC antibody, ABO11301, Western blotting Lane 1: Rat Brain Tissue Lysate Lane 2: Mouse Brain Tissue Lysate Lane 3: U87 Cell Lysate Lane 4: SHG Cell Lysate Lane 5: NEURO Cell Lysate



Anti-TrkC antibody, ABO11301, IHC(P) IHC(P): Human Mammary Cancer Tissue



Anti-TrkC antibody, ABO11301, IHC(P) IHC(P): Rat Brain Tissue

Anti-TrkC Antibody - 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.