

NTRK3 Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP7688d

Specification

NTRK3 Antibody - Product Information

Application

Primary Accession

Reactivity

Host

Clonality

Isotype

WB, IHC-P,E

O16288

Human

Rabbit

Polyclonal

Rabbit IgG

NTRK3 Antibody - Additional Information

Gene ID 4916

Other Names

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

Target/Specificity

This NTRK3 antibody is generated from rabbits immunized with a his tag recombinant protein of human NTRK3.

Dilution

WB~~1:1000 IHC-P~~1:100

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

NTRK3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

NTRK3 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

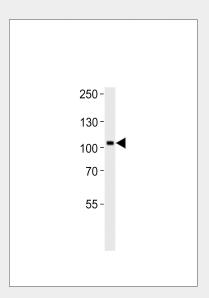
Widely expressed but mainly in nervous tissue. Isoform 2 is expressed at higher levels in adult brain than in fetal brain

NTRK3 Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

NTRK3 Antibody - Images



NTRK3 Antibody (Cat. #AP7688d) western blot analysis in U87-MG cell line lysates (35ug/lane). This demonstrates the NTRK3 antibody detected the NTRK3 protein (arrow).





Immunohistochemical analysis of paraffin-embedded H. brain section using NTRK3 Antibody(Cat#AP7688d). AP7688d was diluted at 1:100 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.

NTRK3 Antibody - Background

NTRK3, a member of the insuline receptor subfamily of Tyr protein kinases, is a receptor for neurotrophin-3 (NT-3). Known substrates for the NTRK receptors are SHC, PI-3 kinase, and PLCG1. The different isoforms do not have identical signaling properties. The protein is widely expressed, mainly in the nervous tissue. The isoform B is expressed in a relatively large amount in the adult brain comparatively to fetal brain. NTRK3 is subject to ligand-mediated auto-phosphorylation. The protein structure contains 2 immunoglobulin-like C2-type domains and 2 leucine-rich (LRR) repeats.

NTRK3 Antibody - References

McGregor, L.M., et al., Genomics 22(2):267-272 (1994). Shelton, D.L., et al., J. Neurosci. 15 (1 Pt 2), 477-491 (1995).