

**NTRK3 Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP7688d**

**Specification**

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**NTRK3 Antibody - Product Information**

Application	<b>WB, IHC-P,E</b>
Primary Accession	<a href="#">Q16288</a>
Reactivity	<b>Human</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>Rabbit IgG</b>

**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

**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

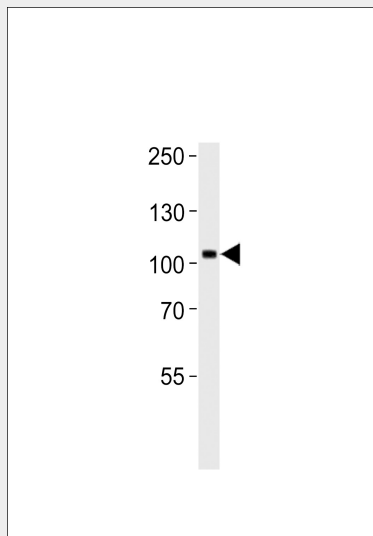
Widely expressed but mainly in nervous tissue. Isoform 2 is expressed at higher levels in adult brain than in fetal brain

### NTRK3 Antibody - Protocols

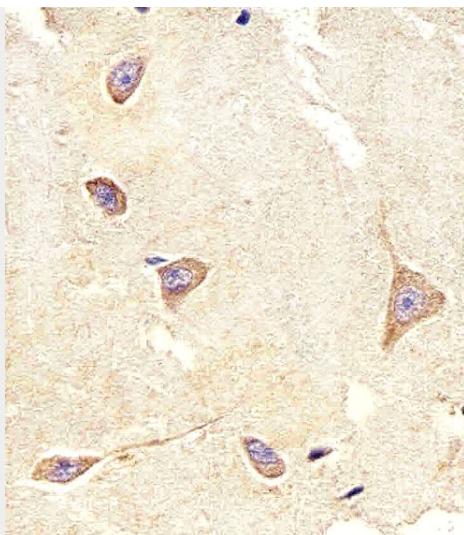
Provided below are standard protocols that you may find useful for product applications.

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