10320 Camino Santa Fe, Suite G
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TRKC Antibody (N-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7688a

Specification

TRKC Antibody (N-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	Q16288
Other Accession	Q03351, P24786, Q6VNS1, Q5IFJ9
Reactivity	**Human**
Predicted	**Monkey, Mouse, Pig, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**94428**
Antigen Region	**31-61**

TRKC Antibody (N-term) - 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 TRKC antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 31-61 amino acids from the N-terminal region of human TRKC.

Dilution
WB~~1:1000
IHC-P~~1:50~100
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
TRKC Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

TRKC Antibody (N-term) - Protein Information

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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.

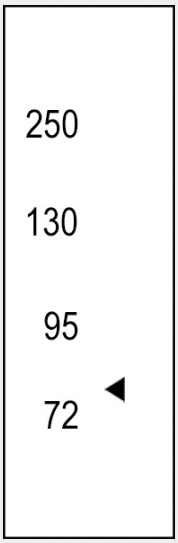
Tissue Location
Widely expressed but mainly in nervous tissue. Isoform 2 is expressed at higher levels in adult brain than in fetal brain

TRKC Antibody (N-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

TRKC Antibody (N-term) - Images



Western blot analysis of hTRKC-C45 (Cat. #AP7688a) in 293 cell line lysates (35ug/lane). TRKC (arrow) was detected using the purified Pab.

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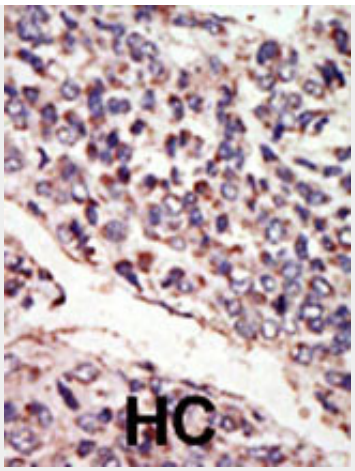

Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

TRKC Antibody (N-term) - Background

TRKC, a member of the insuline receptor subfamily of Tyr protein kinases, is a receptor for neurotrophin-3 (NT-3). Known substrates for the TRK 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. TRKC is subject to ligand-mediated auto-phosphorylation. The protein structure contains 2 immunoglobulin-like C2-type domains and 2 leucine-rich (LRR) repeats.

TRKC Antibody (N-term) - 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).