

# TRKC Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP7688a

## Product Information

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<b>Application</b>	WB, IHC-P, E
<b>Primary Accession</b>	<a href="#">Q16288</a>
<b>Other Accession</b>	<a href="#">Q03351</a> , <a href="#">P24786</a> , <a href="#">Q6VNS1</a> , <a href="#">Q5IFJ9</a>
<b>Reactivity</b>	Human, Rat, Mouse
<b>Predicted</b>	Monkey, Mouse, Pig, Rat
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB1539
<b>Calculated MW</b>	94428
<b>Antigen Region</b>	31-61

## Additional Information

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<b>Gene ID</b>	4916
<b>Other Names</b>	NT-3 growth factor receptor, GP145-TrkC, Trk-C, Neurotrophic tyrosine kinase receptor type 3, TrkC tyrosine kinase, NTRK3, TRKC
<b>Target/Specificity</b>	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.
<b>Dilution</b>	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
<b>Storage</b>	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.
<b>Precautions</b>	TRKC Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	NTRK3
<b>Synonyms</b>	TRKC

<b>Function</b>	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.
<b>Cellular Location</b>	Membrane; Single-pass type I membrane protein.
<b>Tissue Location</b>	Widely expressed but mainly in nervous tissue. Isoform 2 is expressed at higher levels in adult brain than in fetal brain

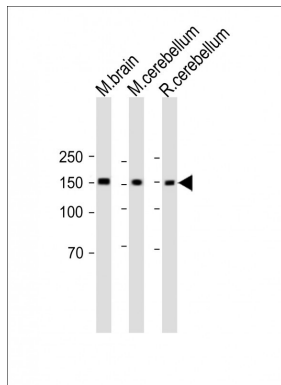
## Background

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.

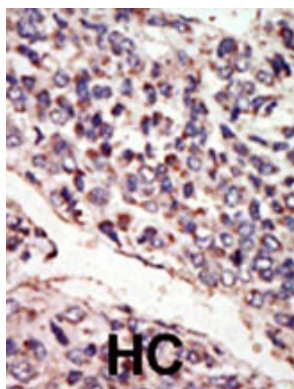
## References

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).

## Images



All lanes : Anti-TRKC Antibody (N-term) at 1:2000 dilution  
Lane 1 : Mouse brain lysate Lane 2 : Mouse cerebellum lysate Lane 3 : Rat cerebellum lysate  
Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution.  
Observed band size : 140kDa Blocking/Dilution buffer : 5% NFDM/TBST.



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.