

# TrkC Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP7688d

## Product Information

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<b>Application</b>	WB, IHC-P, E
<b>Primary Accession</b>	<a href="#">Q16288</a>
<b>Reactivity</b>	Human, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Calculated MW</b>	94428

## 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 his tag recombinant protein of human TrkC.
<b>Dilution</b>	WB~~1:1000 IHC-P~~1:100 E~~Use at an assay dependent concentration.
<b>Format</b>	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.
<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 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.

**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

## Background

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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.

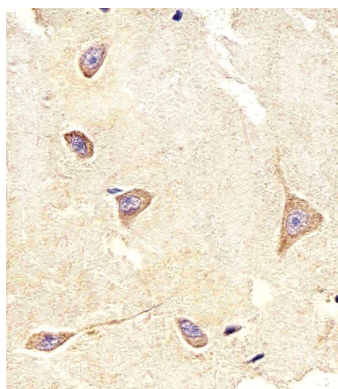
## References

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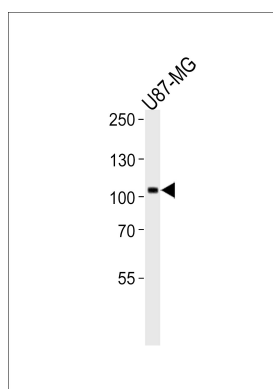
McGregor, L.M., et al., Genomics 22(2):267-272 (1994).  
Shelton, D.L., et al., J. Neurosci. 15 (1 Pt 2), 477-491 (1995).

## Images

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Immunohistochemical analysis of paraffin-embedded H. brain section using TrkC 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.



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.