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TrkC Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7688d

Product Information

Application	WB, IHC-P, E
Primary Accession	Q16288
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	94428

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 his tag recombinant protein of human TrkC.
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	TrkC Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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

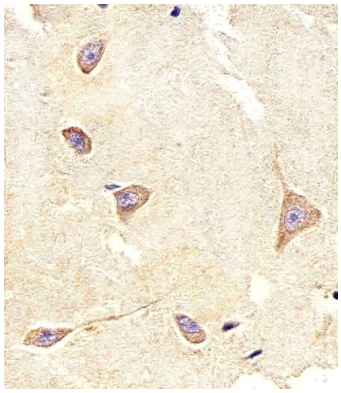
Background

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.

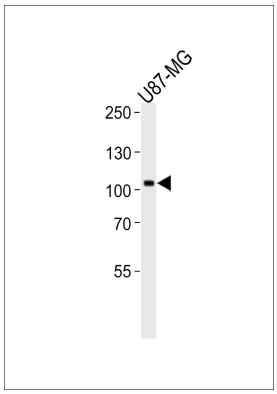
References

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



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).