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NTRK3 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21038a

Product Information

Application	WB, FC, E
Primary Accession	Q16288
Reactivity	Human, Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB51221
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 NTRK3 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 393-426 amino acids from the Central region of human NTRK3.
Dilution	WB~~1:1000 FC~~1:25 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
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 (Center) 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

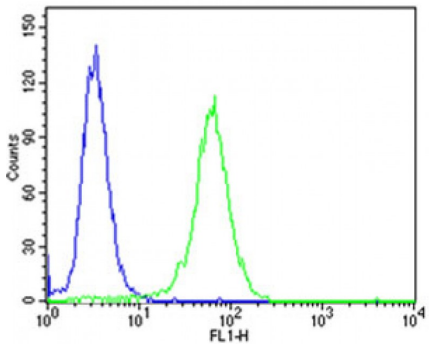
Background

Receptor for neurotrophin-3 (NT-3). This is a tyrosine- protein kinase receptor. Known substrates for the trk receptors are SHC1, PI-3 kinase, and PLCG1. The different isoforms do not have identical signaling properties.

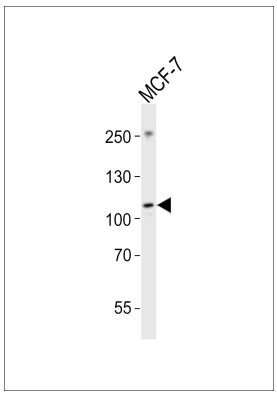
References

McGregor L.M.,et al.Genomics 22:267-272(1994).
Shelton D.L.,et al.J. Neurosci. 15:477-491(1995).
Ichaso N.,et al.Oncogene 17:1871-1875(1998).
Ultsch M.H.,et al.J. Mol. Biol. 290:149-159(1999).
Greenman C.,et al.Nature 446:153-158(2007).

Images



Flow cytometric analysis of NIH-3T3 cells using NTRK3 Antibody (Center)(green, Cat#AP21038a) compared to an isotype control of rabbit IgG(blue). AP21038a was diluted at 1:25 dilution. An Alexa Fluor® 488 goat anti-rabbit lgG at 1:400 dilution was used as the secondary antibody.



Western blot analysis of lysate from MCF-7 cell line, using NTRK3 Antibody (Center)(Cat. #AP21038a). AP21038a was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 20ug.