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NTRK3 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1312a

Product Information

Application	WB, IHC, E
Primary Accession	Q16288
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	7H6
Isotype	IgG1
Calculated MW	94428
Description	NTRK3 (neurotrophic tyrosine kinase, receptor, type 3), it is a member of the neurotrophic tyrosine receptor kinase (NTRK) family and plays an important role in the development and maintenance of neural tissues. This kinase is a membrane-bound receptor that, upon neurotrophin binding, phosphorylates itself and members of the MAPK pathway. Signalling through this kinase leads to cell differentiation and may play a role in the development of proprioceptive neurons that sense body position. Mutations in this gene have been associated with medulloblastomas, secretory breast carcinomas and other cancers.
Immunogen	Purified recombinant extracellular fragment of human NTRK3 (aa32-429) fused with hIgGFc tag expressed in HEK293 cells.
Formulation	Ascitic fluid containing 0.03% sodium azide.

Additional Information

Gene ID	4916
Other Names	NT-3 growth factor receptor, 2.7.10.1, GP145-TrkC, Trk-C, Neurotrophic tyrosine kinase receptor type 3, TrkC tyrosine kinase, NTRK3, TRKC
Dilution	WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 E~~N/A
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	NTRK3 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

References

1. BMC Cancer. 2007 Oct 31;7:202. 2. J Pathol. 2002 Aug;197(5):661-7.

Images

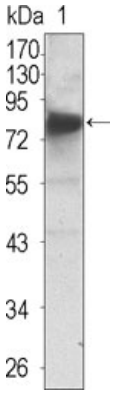


Figure 1: Western blot analysis using NTRK3 mouse mAb against extracellular domain of human NTRK3 (aa32-429).

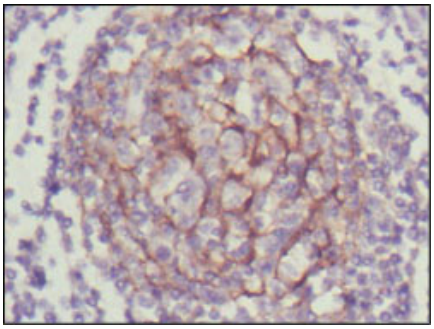


Figure 2: Immunohistochemical analysis of paraffin-embedded human lymph node using NTRK3 mouse mAb with DAB staining.

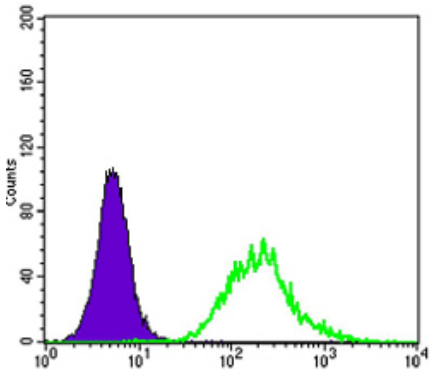


Figure 2: Flow cytometric analysis of K562 cells using MATK mouse mAb (green) and negative control (purple).

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