Immunoway
Best Tools for immunology Research

Trk C Monoclonal Antibody

Catalog No :	YM0629
Reactivity :	Human
Applications :	WB;IHC;IF;ELISA
Target :	Trk C
Fields :	>>Calcium signaling pathway;>>Neurotrophin signaling pathway;>>Central carbon metabolism in cancer
Gene Name :	NTRK3
Protein Name :	NT-3 growth factor receptor
Human Gene Id :	4916
Human Swiss Prot No :	Q16288
Mouse Swiss Prot No :	Q6VNS1
Immunogen :	Purified recombinant extracellular fragment of human Trk C (aa32-429) fused with hIgGFc tag expressed in HEK293 cells.
Specificity :	Trk C Monoclonal Antibody detects endogenous levels of Trk C protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Monoclonal, Mouse
Dilution :	WB 1:500 - 1:2000. IHC 1:200 - 1:1000. ELISA: 1:10000.. IF 1:50-200
Purification :	Affinity purification
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	94kD

Cell Pathway : Neurotrophin;

P References :

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

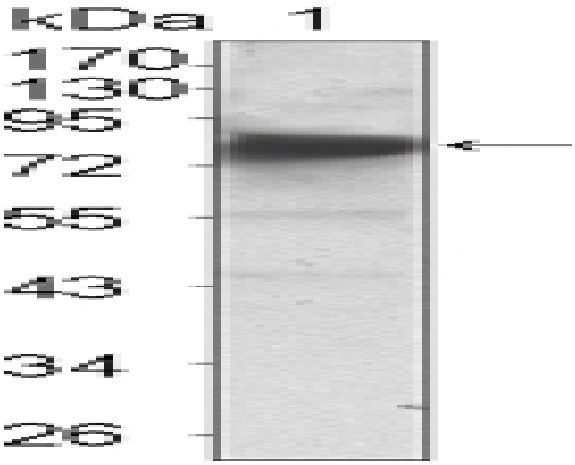
Background : This gene encodes a member of the neurotrophic tyrosine receptor kinase (NTRK) family. This kinase is a membrane-bound receptor that, upon neurotrophin binding, phosphorylates itself and members of the MAPK pathway. Signalling through this kinase leads to cell differentiation and may play 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. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2011],

Function : alternative products:Additional isoforms seem to exist,catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate.,function: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.,PTM:Ligand-mediated auto-phosphorylation.,similarity:Belongs to the protein kinase superfamily. Tyr protein kinase family. Insulin receptor subfamily.,similarity:Contains 1 protein kinase domain.,similarity:Contains 2 Ig-like C2-type (immunoglobulin-like) domains.,similarity:Contains 2 LRR (leucine-rich) repeats.,subunit:Exists in a dynamic equilibrium between monomeric (low affinity) and dimeric (high affinity) structures. Binds SH2B2. Interacts with SQSTM1 and KIDINS220.,tissue specificity:Widely expressed but mainly i

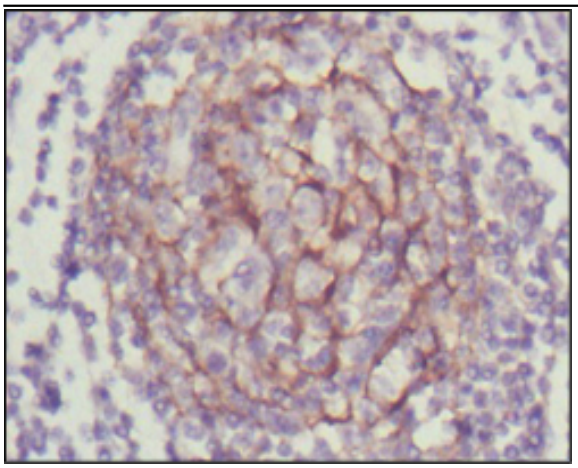
Subcellular Location : Membrane; Single-pass type I membrane protein.

Expression : Widely expressed but mainly in nervous tissue. Isoform 2 is expressed at higher levels in adult brain than in fetal brain.

Products Images



Western Blot analysis using Trk C Monoclonal Antibody against extracellular domain of human Trk C (aa32-429).



Immunohistochemistry analysis of paraffin-embedded human lymph node with DAB staining using Trk C Monoclonal Antibody.