

Trk C (phospho Tyr516) Polyclonal Antibody

Catalog No: YP0800

Reactivity: Human; Mouse; Rat

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

Q16288

Q6VNS1

Human Gene Id: 4916

Human Swiss Prot

No:

Mouse Gene Id: 18213

Mouse Swiss Prot

No:

Rat Gene Id: 29613

Rat Swiss Prot No: Q03351

Immunogen : The antiserum was produced against synthesized peptide derived from human

Trk C around the phosphorylation site of Tyr516. AA range:482-531

Specificity: Phospho-Trk C (Y516) Polyclonal Antibody detects endogenous levels of Trk C

protein only when phosphorylated at Y516.

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

Dilution : WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:10000.. IF 1:50-200

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Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 160kD

Cell Pathway: Neurotrophin;

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

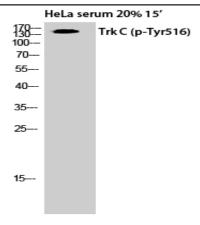
Subcellular Location:

Membrane; Single-pass type I membrane protein.

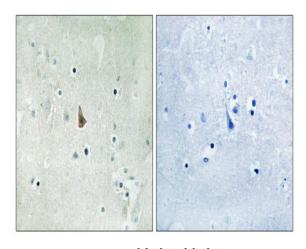
Expression: Widely expressed but mainly in nervous tissue. Isoform 2 is expressed at higher

levels in adult brain than in fetal brain.

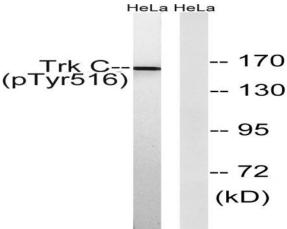
Products Images



Western Blot analysis of HELA cells using Phospho-Trk C (Y516) Polyclonal Antibody



Immunohistochemistry analysis of paraffin-embedded human brain, using Trk C (Phospho-Tyr516) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HeLa cells treated with serum 20% 15', using Trk C (Phospho-Tyr516) Antibody. The lane on the right is blocked with the phospho peptide.