

Product Name: Trk B Rabbit Polyclonal Antibody
Catalog #: APRab19286



Summary

Production Name	Trk B Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	IHC, WB,
Reactivity	Human, Mouse, Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	NTRK2
Alternative Names	NTRK2; TRKB; BDNF/NT-3 growth factors receptor; GP145-TrkB; Trk-B; Neurotrophic tyrosine kinase receptor type 2; TrkB tyrosine kinase; Tropomyosin-related kinase B
Gene ID	4915.0
SwissProt ID	Q16620. The antiserum was produced against synthesized peptide derived from human Trk B. AA range: 671-720

Application

Dilution Ratio	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:20000..
Molecular Weight	145kD

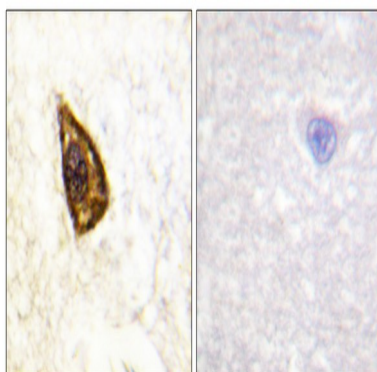
Background

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. Mutations in this gene have been associated with obesity and mood disorders. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2014], alternative products: Additional isoforms seem to exist, catalytic activity: $\text{ATP} + \text{a [protein]-L-tyrosine} = \text{ADP} + \text{a [protein]-L-tyrosine phosphate}$, function: Receptor for brain-derived neurotrophic factor (BDNF), neurotrophin-3 and neurotrophin-4/5 but not nerve growth factor (NGF). Involved in the development and/or maintenance of the nervous system. This is a tyrosine-protein kinase receptor. Known substrates for the TRK receptors are SHC1, PI-3 kinase, and PLC-gamma-1, PTM: Ligand-mediated auto-phosphorylation, similarity: Belongs to the protein kinase superfamily. Tyr protein kinase family, 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: Isoform TrkB is widely expressed, mainly in the nervous tissue. In the CNS, expression is observed in the cerebral cortex, hippocampus, thalamus, choroid plexus, granular layer of the cerebellum, brain stem, and spinal cord. In the peripheral nervous system, it is expressed in many cranial ganglia, the opthalmic nerve, the vestibular system, multiple facial structures, the submaxillary glands, and dorsal root ganglia. Isoform TrkB-T1 is expressed in multiple tissues, mainly in brain, pancreas, kidney and heart. Isoform TrkB-T-Shc is predominantly expressed in brain,

Research Area

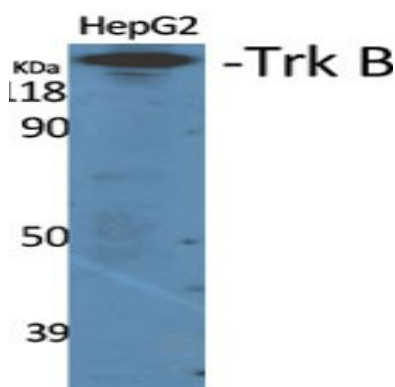
MAPK_ERK_Growth; MAPK_G_Protein; Neurotrophin;

Image Data

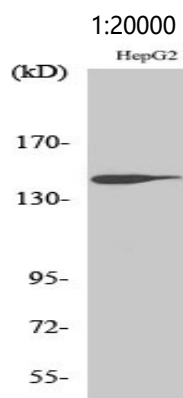


Immunohistochemistry analysis of paraffin-embedded human brain tissue, using Trk B Antibody. The picture on the right is blocked with the synthesized peptide.

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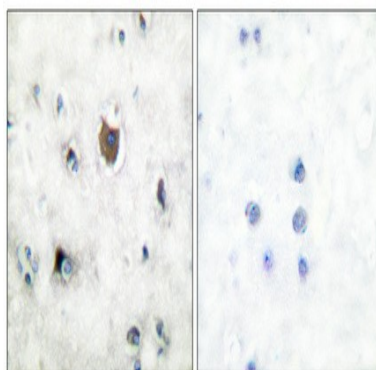


Western Blot analysis of various cells using Trk B Polyclonal Antibody diluted at 1 : 500. Secondary antibody was diluted at



Western Blot analysis of HepG2 cells using Trk B Polyclonal Antibody diluted at 1 : 500. Secondary antibody was diluted at

1:20000



Immunohistochemical analysis of paraffin-embedded Human breast cancer. Antibody was diluted at 1:100 (4°,overnight) .

High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negative contrl (right) obtained from antibody was pre-absorbed by immunogen peptide.

Note

For research use only.