



From Biology to Discovery™

Trk A/B/C Antibody

Subcategory: Rabbit Polyclonal Antibody

Cat. No.: 250894

Unit: 0.1 mg

Description:

The Trk family of nerve growth factor receptors includes Trk A, Trk B and Trk C. The prototype member of this gene family, Trk A encodes a 140-kDa cell surface receptor (gp140) expressed in neurons of the sensory spinal and cranial ganglia of neurocrest origin. Nerve growth factor (NGF) stimulates tyrosine phosphorylation of Trk A in neural cell lines and embryonic dorsal root ganglia. By comparison, BDNF and to a lesser extent, neurotrophin-3 (NT-3), but not NGF, can induce tyrosine phosphorylation of Trk B gp 145. Trk C, the third member of the Trk receptor family, encodes a 140-kDa protein, Trk C gp 140, that is preferentially expressed in brain tissue and primarily functions as a receptor for NT-3. An additional component of the Trk receptor complex, NGFR p 175, binds to neurotrophic factor with low affinity but is required for efficient signaling. Defects in Trk A are a cause of congenital insensitivity to pain with anhidrosis (CIPA). CIPA is characterized by a congenital insensitivity to pain, anhidrosis (absence of sweating), absence of reaction to noxious stimuli, self-mutilating behavior, and mental retardation. This rare autosomal recessive disorder is also known as congenital sensory neuropathy with anhidrosis or hereditary sensory and autonomic neuropathy type IV or familial dysautonomia type II.

Isotype: Rabbit Ig

Applications: E, WB, IHC

Species Reactivity: H, M, R

Format: Each vial contains 0.1 mg IgG in 0.1 ml (1 mg/ml) of PBS pH7.4 with 0.09% sodium azide. Antibody was purified by Protein-G affinity chromatography.

Alternate Names: High affinity nerve growth factor receptor; Neurotrophic tyrosine kinase receptor type 1; TRK1-transforming tyrosine kinase protein; p140-TrkA; Trk-A; NTRK1; TRK; NT-3 growth factor receptor; Neurotrophic tyrosine kinase receptor type 3; TrkC tyrosine kinase; GP145-TrkC; Trk-C; NTRK3; TRKC; BDNF/NT-3 growth factors receptor; Neurotrophic tyrosine kinase receptor type 2; TrkB; TrkB tyrosine kinase; GP145-TrkB; Trk-B; GP145; NTRK2

Accession No.: P04629, Q16288, Q16620

Antigen: KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human Trk A/B/C.

Application Notes: E: 1:500-1:1,000; WB: 1:100-1:500; IHC: 1:100-1:500

Storage: Store at -20°C. Minimize freeze-thaw cycles.

Product is guaranteed one year from the date of shipment.

For research use only, not for diagnostic or therapeutic procedures.

