



Rabbit Anti-TrkC antibody

SL0176R

Product Name:	TrkC
Chinese Name:	酪氨酸激酶受体C抗体
Alias:	EC 2.7.10.1; ETS related protein neurotrophic receptor tyrosine kinase fusion; ETV6 NTRK3 fusion; GP145 TrkC; gp145(trkC); GP145TrkC; Neurotrophic tyrosine kinase receptor type 3; Neurotrophin 3 receptor; NT 3 growth factor receptor; NT 3 growth factor receptor precursor; NT 3 receptor; NTRK3; NTRK3_HUMAN; OTTHUMP00000192915; TRK C; TrkC tyrosine kinase; Tyrosine kinase receptor C.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	91kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human TrkC:201-300/839
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	The Trk family of nerve growth factor receptors includes Trk A(also refered to as Trk A gp140),Trk B and Trk C. The prototype member of this gene family, Trk A, encodes a 140 kDa cell surface receptor, gp140, the expression of which is restricted in vivo to

neurons of the sensory spinal and cranial ganglia of neurocrest origin. Nerve growth factor (NGF) stimulates tyrosine phosphorylation of Trk gp 140 in neural cell lines and in embryonic dorsal root ganglia. By comparison, BDNF and to a lesser extent, NT-3, but not NGF, can induce tyrosine phosphorylation of Trk B gp 145. The third member of the Trk receptor family, Trk C encodes a 140 kDa protein, Trk C gp140, 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 p175, binds to neurotrophic factors with low affinity but is required for efficient signaling. NGFR p175 accelerates Trk activation and may recruit downstream effector molecules to the ligand-bound receptor complex.

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.

Subunit:

Exists in a dynamic equilibrium between monomeric (low affinity) and dimeric (high affinity) structures. Binds SH2B2. Interacts with SQSTM1 and KIDINS220 (By similarity).

Subcellular Location:

Membrane; Single-pass type I membrane protein.

Tissue Specificity:

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

Post-translational modifications:

Ligand-mediated auto-phosphorylation.

Similarity:

Belongs to the protein kinase superfamily. Tyr protein kinase family. Insulin receptor subfamily.

Contains 2 Ig-like C2-type (immunoglobulin-like) domains.

Contains 2 LRR (leucine-rich) repeats.

Contains 1 LRRCT domain.

Contains 1 protein kinase domain.

SWISS:

Q16288

Gene ID:

4916

Database links:

[Entrez Gene: 4916](#)Human

[Entrez Gene: 18213](#)Mouse

[Entrez Gene: 29613](#)Rat

[Omim: 191316](#)Human

[SwissProt: Q16288](#)Human

[SwissProt: Q6VNS1](#)Mouse

[SwissProt: Q03351](#)Rat

[Unigene: 410969](#)Human

[Unigene: 706364](#)Human

[Unigene: 33496](#)Mouse

[Unigene: 421361](#)Mouse

[Unigene: 9963](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.