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Rabbit Anti-TrkC antibody

SL0176R

Product Name	TrkC
Chinese Name	酪氨酸激酶受体 C 抗体
Alias	NTRK3; NTRK3_HUMAN; 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; OTTHUMP00000192915; TRK C; TrkC tyrosine kinase; Tyrosine kinase receptor C.
Research Area	Tumour Developmental biology Neurobiology Signal transduction Kinases and Phosphatases The cell membrane 受体
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	(predicted: Human, Mouse, Rat,)
Applications	WB=1:500-2000,ELISA=1:5000-10000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	91kDa
Cellular localization	The cell membrane
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human TrkC: 201-300/839
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in

human, therapeutic or diagnostic applications.

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The Trk family of nerve growth factor receptors includes Trk A(also referfed 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 gangliaof 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 phophorylayion of Trk B gp 145. The third member of the Trk receptor family, Trk C incodes 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 dffector 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.

Product Detail

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

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