

## Mouse Anti-TrkC antibody

SLM-51599M

<b>Product Name</b>	TrkC
<b>Chinese Name</b>	酪氨酸激酶受体 C 单克隆抗体
<b>Alias</b>	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.
<b>Research Area</b>	Tumour Developmental biology Neurobiology Signal transduction Kinases and Phosphatases The cell membrane 受体
<b>Immunogen Species</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Clone NO.</b>	B5D6
<b>React Species</b>	Human, Mouse, Rat, WB=1:500-1000
<b>Applications</b>	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Theoretical molecular weight</b>	91kDa
<b>Cellular localization</b>	The cell membrane
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>immunogen</b>	Recombinant human Ntrk3.
<b>Lsotype</b>	IgG1,k
<b>Purification</b>	affinity purified by Protein G
<b>Buffer Solution</b>	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
<b>Storage</b>	Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
<b>Attention</b>	This product as supplied is intended for research use only, not for use in

human, therapeutic or diagnostic applications.

## PubMed

### [PubMed](#)

The Trk family of nerve growth factor receptors includes Trk A(also referred 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.

## 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

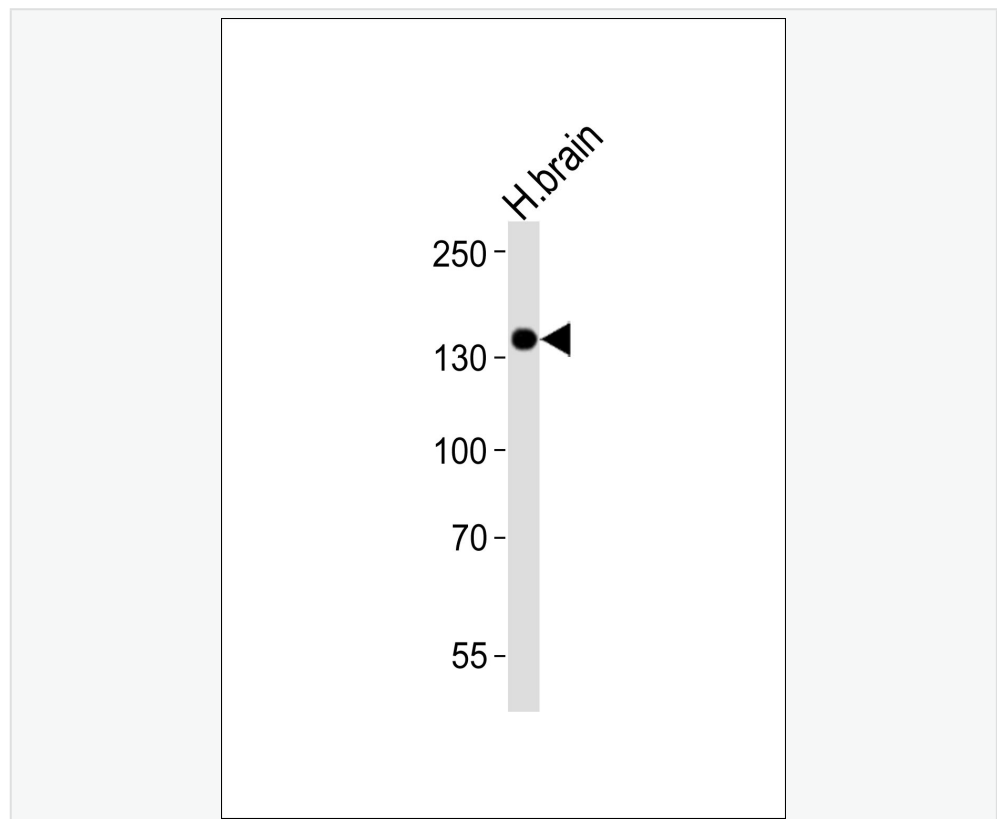
[Entrez Gene: 29613](#) Rat

[SwissProt: Q16288](#) Human

[SwissProt: Q6VNS1](#) Mouse

[SwissProt: Q03351](#) Rat

**Product Picture**



Sample:

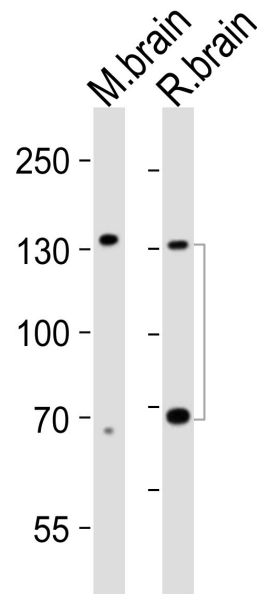
Lane 1: Human brain tissue lysates

Primary: Anti-TrkC (SLM-51599M) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution

Predicted band size: 91 kD

Observed band size:135 kD



Sample:

Lane 1: Mouse brain tissue lysates

Lane 2: Rat brain tissue lysates



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Primary: Anti-TrkC (SLM-51599M) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution

Predicted band size: 91 kD

Observed band size:130/70 kD