

## Product datasheet for **TA336908**

### TrkC (NTRK3) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ICC/IF, IHC
Recommended Dilution:	Immunohistochemistry: 1:200, Immunocytochemistry/ Immunofluorescence: 1:1000, Immunohistochemistry-Paraffin: 1:200
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	A synthetic peptide made to the extracellular domain of the human TrkC protein (within residues 300-400). [UniProt Q16288].
Formulation:	PBS, 0.05% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Immunogen affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	neurotrophic receptor tyrosine kinase 3
Database Link:	<a href="#">NP_002521</a> <a href="#">Entrez Gene 18213 Mouse</a> <a href="#">Entrez Gene 4916 Human</a> <a href="#">Q16288</a>



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**Background:** Neurotrophic tyrosine kinase receptor type 3 (NTRK3), commonly known as TRKC, is a member of the protein kinase superfamily, the tyrosine (Tyr) protein kinase family, and more specifically, the insulin receptor subfamily. TRKC is a single pass type I membrane protein that phosphorylates itself (via ligand-mediated auto-phosphorylation) and other proteins in the MAPK pathway upon neurotrophin binding. Mutations to the TRKC gene have been correlated with the development of medulloblastomas, secretory breast carcinomas, and other cancers. TRKC has several transcript variants that encode different isoforms (A= 94.4kDa, B= 68.4kDa, C= 92.8kDa, and D= 93.3kDa), and each isoform has unique signaling properties. Cell differentiation that plays a role in the development of proprioceptive neurons originates via signaling through TRKC. The TRKC protein contains two Ig-like C2-type immunoglobulin-like domains, two leucine-rich repeats (LRR), one leucine rich repeat C-terminal (LRRCT) domain, and one protein kinase domain.

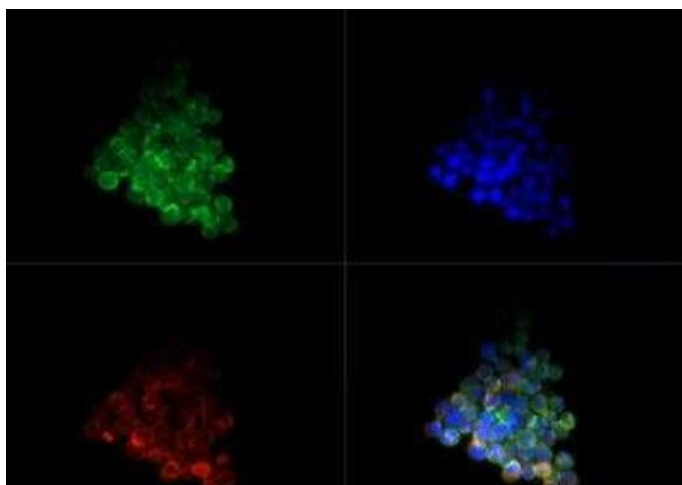
**Synonyms:** gp145(trkC); TRKC

**Note:** This TrkC antibody is useful for Immunohistochemistry-Paraffin and Immunocytochemistry / Immunofluorescence. In ICC/IF, membrane staining was observed in neuro2a cells. In IHC-P, staining was observed in the membrane of mouse brain. Prior to immunostaining paraffin tissues, antigen retrieval with sodium citrate buffer (pH 6.0) is recommended.

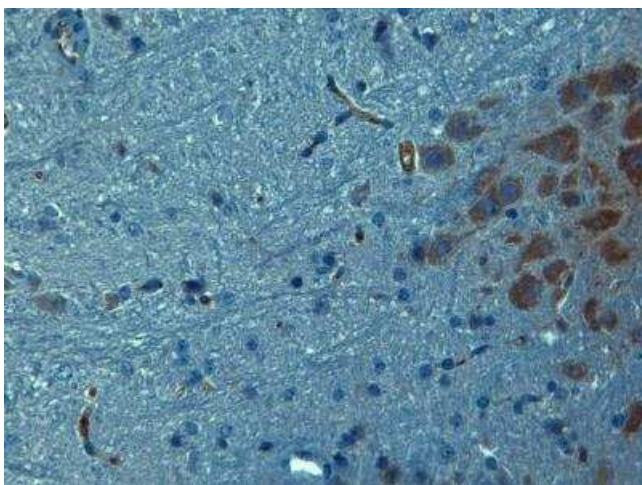
**Protein Families:** Druggable Genome, Protein Kinase, Transmembrane

**Protein Pathways:** Neurotrophin signaling pathway

### Product images:



Immunocytochemistry/Immunofluorescence:  
TrkC Antibody TA336908 - TrkC antibody was tested in neuro2a cells with Dylight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and Dylight 550 (red).



Immunohistochemistry: TrkC Antibody TA336908  
- TrkC antibody was tested in mouse brain using  
DAB with hematoxylin counterstain.