

**TRKC Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP7688a****Specification**

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**TRKC Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [Q16288](#)**TRKC Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 4916**Other Names**

NT-3 growth factor receptor, GP145-TrkC, Trk-C, Neurotrophic tyrosine kinase receptor type 3, TrkC tyrosine kinase, NTRK3, TRKC

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP7688a](/product/products/AP7688a) was selected from the N-term region of human TRKC. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**TRKC Antibody (N-term) Blocking Peptide - Protein Information****Name** NTRK3**Synonyms** TRKC**Function**

Receptor tyrosine kinase involved in nervous system and probably heart development. Upon binding of its ligand NTF3/neurotrophin-3, NTRK3 autophosphorylates and activates different signaling pathways, including the phosphatidylinositol 3-kinase/AKT and the MAPK pathways, that control cell survival and differentiation.

**Cellular Location**

Membrane; Single-pass type I membrane protein.

**Tissue Location**

Widely expressed but mainly in nervous tissue. Isoform 2 is expressed at higher levels in adult brain than in fetal brain

### **TRKC Antibody (N-term) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

### **TRKC Antibody (N-term) Blocking Peptide - Images**

### **TRKC Antibody (N-term) Blocking Peptide - Background**

TRKC, a member of the insuline receptor subfamily of Tyr protein kinases, is a receptor for neurotrophin-3 (NT-3). Known substrates for the TRK receptors are SHC, PI-3 kinase, and PLCG1. The different isoforms do not have identical signaling properties. The protein is widely expressed, mainly in the nervous tissue. The isoform B is expressed in a relatively large amount in the adult brain comparatively to fetal brain. TRKC is subject to ligand-mediated auto-phosphorylation. The protein structure contains 2 immunoglobulin-like C2-type domains and 2 leucine-rich (LRR) repeats.

### **TRKC Antibody (N-term) Blocking Peptide - References**

McGregor, L.M., et al., Genomics 22(2):267-272 (1994). Shelton, D.L., et al., J. Neurosci. 15 (1 Pt 2), 477-491 (1995).