

TYRO3 Blocking Peptide (C-term) Synthetic peptide Catalog # BP20986c

## Specification

# **TYRO3 Blocking Peptide (C-term) - Product Information**

Primary Accession

<u>Q06418</u>

## **TYRO3 Blocking Peptide (C-term) - Additional Information**

Gene ID 7301

Other Names

Tyrosine-protein kinase receptor TYRO3, Tyrosine-protein kinase BYK, Tyrosine-protein kinase DTK, Tyrosine-protein kinase RSE, Tyrosine-protein kinase SKY, Tyrosine-protein kinase TIF, TYRO3, BYK, DTK, RSE, SKY, TIF

## **Target/Specificity** The synthetic peptide sequence is selected from aa 854-868 of HUMAN TYRO3

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.

# **TYRO3 Blocking Peptide (C-term) - Protein Information**

Name TYRO3

Synonyms BYK, DTK, RSE, SKY, TIF

### Function

Receptor tyrosine kinase that transduces signals from the extracellular matrix into the cytoplasm by binding to several ligands including TULP1 or GAS6. Regulates many physiological processes including cell survival, migration and differentiation. Ligand binding at the cell surface induces dimerization and autophosphorylation of TYRO3 on its intracellular domain that provides docking sites for downstream signaling molecules. Following activation by ligand, interacts with PIK3R1 and thereby enhances PI3-kinase activity. Activates the AKT survival pathway, including nuclear translocation of NF-kappa-B and up-regulation of transcription of NF-kappa-B-regulated genes. TYRO3 signaling plays a role in various processes such as neuron protection from excitotoxic injury, platelet aggregation and cytoskeleton reorganization. Also plays an important role in inhibition of Toll-like receptors (TLRs)-mediated innate immune response by activating STAT1, which selectively induces production of suppressors of cytokine signaling SOCS1 and SOCS3.



**Cellular Location** 

Cell membrane; Single-pass type I membrane protein

**Tissue Location** 

Abundant in the brain and lower levels in other tissues

# **TYRO3 Blocking Peptide (C-term) - Protocols**

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

#### • <u>Blocking Peptides</u> TYRO3 Blocking Peptide (C-term) - Images

## TYRO3 Blocking Peptide (C-term) - Background

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### **TYRO3 Blocking Peptide (C-term) - References**

Mark M.R., et al.J. Biol. Chem. 269:10720-10728(1994). Ohashi K., et al.Oncogene 9:699-705(1994). Crosier K.E., et al.Growth Factors 11:137-144(1994). Kajii Y., et al.Biol. Cell 88:45-54(1996). Polvi A., et al.Gene 134:289-293(1993).