

JK (TAOK3) Blocking Peptide (C-term)
Synthetic peptide
Catalog # BP7012b**Specification**

JK (TAOK3) Blocking Peptide (C-term) - Product Information

Primary Accession [Q9H2K8](#)
Other Accession [Q6DD27](#), [Q53UA7](#), [Q8BYC6](#), [Q9I9E0](#)

JK (TAOK3) Blocking Peptide (C-term) - Additional Information

Gene ID 51347

Other Names

Serine/threonine-protein kinase TAO3, Cutaneous T-cell lymphoma-associated antigen HD-CL-09, CTCL-associated antigen HD-CL-09, Dendritic cell-derived protein kinase, JNK/SAPK-inhibitory kinase, Jun kinase-inhibitory kinase, Kinase from chicken homolog A, hKFC-A, Thousand and one amino acid protein 3, TAOK3, DPK, JIK, KDS, MAP3K18

Target/Specificity

The synthetic peptide sequence is selected from aa 686-700 of HUMAN TAOK3

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.

JK (TAOK3) Blocking Peptide (C-term) - Protein Information

Name TAOK3

Synonyms DPK, JIK, KDS, MAP3K18

Function

Serine/threonine-protein kinase that acts as a regulator of the p38/MAPK14 stress-activated MAPK cascade and of the MAPK8/JNK cascade. Acts as an activator of the p38/MAPK14 stress-activated MAPK cascade. In response to DNA damage, involved in the G2/M transition DNA damage checkpoint by activating the p38/MAPK14 stress-activated MAPK cascade, probably by mediating phosphorylation of upstream MAP2K3 and MAP2K6 kinases. Inhibits basal activity of MAPK8/JNK cascade and diminishes its activation in response epidermal growth factor (EGF).

Cellular Location

Cytoplasm. Cell membrane; Peripheral membrane protein. Note=Also localized to the peripheral

cell membrane

Tissue Location

Ubiquitously expressed at a low level, and highly expressed in peripheral blood leukocytes (PBLs), thymus, spleen, kidney, skeletal muscle, heart and liver.

JIK (TAOK3) Blocking Peptide (C-term) - Protocols

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

- [Blocking Peptides](#)

JIK (TAOK3) Blocking Peptide (C-term) - Images**JIK (TAOK3) Blocking Peptide (C-term) - Background**

TAOK3 is negatively regulated by epidermal growth factor (EGF) and Inhibits the basal activity of Jun kinase. When TAOK3 is overexpressed, it may activate ERK1/ERK2 and JNK/SAPK.

JIK (TAOK3) Blocking Peptide (C-term) - References

Hartmann,T.B.,Br. J. Dermatol. 150 (2), 252-258 (2004)
Yustein,J.T.,Oncogene 22 (40), 6129-6141 (2003)
Yoneda,T.,J. Biol. Chem. 276 (17), 13935-13940 (2001)
Zhang,W.,Biochem. Biophys. Res. Commun. 274 (3), 872-879 (2000)