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GLK Blocking Peptide (Q499)

Synthetic peptide
Catalog # BP8005c

Specification

GLK Blocking Peptide (Q499) - Product Information

Primary Accession Q8IVH8

GLK Blocking Peptide (Q499) - Additional Information

Gene ID 8491

Other Names
Mitogen-activated protein kinase kinase kinase kinase 3, Germinal center kinase-related protein kinase, GLK, MAPK/ERK kinase kinase kinase 3, MEK kinase kinase 3, MEKKK 3, MAP4K3, RAB8IPL1

Target/Specificity
The synthetic peptide sequence is selected from aa 499~518 of HUMAN MAP4K3

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.

GLK Blocking Peptide (Q499) - Protein Information

Name MAP4K3 (HGNC:6865)

Synonyms RAB8IPL1

Function
Serine/threonine kinase that plays a role in the response to environmental stress. Appears to act upstream of the JUN N-terminal pathway (PubMed:9275185). Activator of the Hippo signaling pathway which plays a pivotal role in organ size control and tumor suppression by restricting proliferation and promoting apoptosis. MAP4Ks act in parallel to and are partially redundant with STK3/MST2 and STK4/MST2 in the phosphorylation and activation of LATS1/2, and establish MAP4Ks as components of the expanded Hippo pathway (PubMed:26437443).

Tissue Location
Ubiquitously expressed in all tissues examined, with high levels in heart, brain, placenta, skeletal muscle, kidney and pancreas and lower levels in lung and liver

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GLK Blocking Peptide (Q499) - Protocols

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

- Blocking Peptides

GLK Blocking Peptide (Q499) - Images

GLK Blocking Peptide (Q499) - Background

GLK is a member of the Ste20 family of serine/threonine protein kinases. The protein belongs to the subfamily that consists of members, such as germinal center kinase (GCK), that are characterized by an N-terminal catalytic domain and C-terminal regulatory domain. The kinase activity of the encoded protein can be stimulated by UV radiation and tumor necrosis factor-alpha. The protein specifically activates the c-Jun N-terminal kinase (JNK) signaling pathway. Evidence suggests that it functions upstream of mitogen-activated protein kinase kinase kinase 1 (MEKK1). This gene previously was referred to as RAB8-interacting protein-like 1 (RAB8IPL1), but it has been renamed mitogen-activated protein kinase kinase kinase kinase 3 (MAP4K3).

GLK Blocking Peptide (Q499) - References

Diener, K., et al., Proc. Natl. Acad. Sci. U.S.A. 94(18):9687-9692 (1997).