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MINK1/2 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP7914a

Specification

MINK1/2 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q8N4C8

MINK1/2 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 50488

Other Names
Misshapen-like kinase 1, GCK family kinase MiNK, MAPK/ERK kinase kinase kinase 6, MEK kinase kinase 6, MEKKK 6, Misshapen/NIK-related kinase, Mitogen-activated protein kinase kinase kinase kinase 6, MINK1 (HGNC:17565)

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP7914a was selected from the C-term region of human MINK1/2 . 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.

MINK1/2 Antibody (C-term) Blocking Peptide - Protein Information

Name MINK1 (HGNC:17565)

Function
Serine/threonine kinase which acts as a negative regulator of Ras-related Rap2-mediated signal transduction to control neuronal structure and AMPA receptor trafficking. Required for normal synaptic density, dendrite complexity, as well as surface AMPA receptor expression in hippocampal neurons. Can activate the JNK and MAPK14/p38 pathways and mediates stimulation of the stress-activated protein kinase MAPK14/p38 MAPK downstream of the Raf/ERK pathway. Phosphorylates: TANC1 upon stimulation by RAP2A, MBP and SMAD1. Has an essential function in negative selection of thymocytes, perhaps by coupling NCK1 to activation of JNK1.

Cellular Location
Cytoplasm. Postsynaptic density. Cell projection, axon. Cell projection, dendrite

Tissue Location
Expressed in the brain, isoform 2 is more abundant than isoform 1. Isoform 3 is ubiquitously expressed. Isoform 1 is most abundant in the skeletal muscle. Isoform 4 is ubiquitously expressed with relative high levels in brain, skeletal muscle, pancreas and testis.

MINK1/2 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

MINK1/2 Antibody (C-term) Blocking Peptide - Images

MINK1/2 Antibody (C-term) Blocking Peptide - Background

MINK1 and MINK2 are serine/threonine protein kinases of the STE subfamily that may play a role in the response to environmental stress. They appears to act upstream of the JUN N-terminal pathway and may play a role in the development of the brain. Expression appears to be ubiquitous, highly expressed in the brain, moderately expressed in kidney and spleen, with lower levels present in heart and skeletal muscle. These proteins are up-regulated during post-natal brain development.

MINK1/2 Antibody (C-term) Blocking Peptide - References

Strausberg, R.L., et al., Proc. Natl. Acad. Sci. U.S.A. 99(26):16899-16903 (2002).Dan, I., et al., FEBS Lett. 469(1):19-23 (2000).