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MEKK1 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP7907a

Specification

MEKK1 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q13233

MEKK1 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 4214

Other Names
Mitogen-activated protein kinase kinase kinase 1, MAPK/ERK kinase kinase 1, MEK kinase 1, MEKK 1, MAP3K1, MAPKKK1, MEKK, MEKK1

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP7907a was selected from the C-term region of human MEKK1 . 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.

MEKK1 Antibody (C-term) Blocking Peptide - Protein Information

Name MAP3K1

Synonyms MAPKKK1, MEKK, MEKK1

Function
Component of a protein kinase signal transduction cascade (PubMed:9808624). Activates the ERK and JNK kinase pathways by phosphorylation of MAP2K1 and MAP2K4 (PubMed:9808624). May phosphorylate the MAPK8/JNK1 kinase (PubMed:17761173). Activates CHUK and IKBKB, the central protein kinases of the NF-kappa-B pathway (PubMed:9808624).

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MEKK1 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

MEKK1 Antibody (C-term) Blocking Peptide - Images

MEKK1 Antibody (C-term) Blocking Peptide - Background

Mitogen-activated protein kinase (MAPK) signaling cascades include MAPK or extracellular signal-regulated kinase (ERK), MAPK kinase (MKK or MEK), and MAPK kinase kinase (MAPKKK or MEKK). MAPKK kinase/MEKK phosphorylates and activates its downstream protein kinase, MAPK kinase/MEK, which in turn activates MAPK. The kinases of these signaling cascades are highly conserved, and homologs exist in yeast, Drosophila, and mammalian cells. MEKK1 can phosphorylate and activate MAPKK 1 and MAPKK 2 (MEK1/MEK2) which leads to phosphorylation of MAP kinases. It is also a highly efficient activator of the JNK cascade. The protein contains a putative 1 RING-type zinc finger and 1 SWIM-type zinc finger.

MEKK1 Antibody (C-term) Blocking Peptide - References

Xia, Y., et al., Genes Dev. 12(21):3369-3381 (1998).Vinik, B.S., et al., Mamm. Genome 6(11):782-783 (1995).