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Phospho-MAP4K4(S631) Antibody Blocking peptide
Synthetic peptide
Catalog # BP3426a

Specification

Phospho-MAP4K4(S631) Antibody Blocking peptide - Product Information

Primary Accession O95819

Phospho-MAP4K4(S631) Antibody Blocking peptide - Additional Information

Gene ID 9448

Other Names
Mitogen-activated protein kinase kinase kinase kinase 4, HPK/GCK-like kinase HGK, MAPK/ERK kinase kinase kinase 4, MEK kinase kinase 4, MEKKK 4, Nck-interacting kinase, MAP4K4, HGK, KIAA0687, NIK

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP3426a was selected from the region of human Phospho-MAP4K4-pS631. 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.

Phospho-MAP4K4(S631) Antibody Blocking peptide - Protein Information

Name MAP4K4

Synonyms HGK, KIAA0687, NIK

Function
Serine/threonine kinase that may play a role in the response to environmental stress and cytokines such as TNF-alpha. Appears to act upstream of the JUN N-terminal pathway. Phosphorylates SMAD1 on Thr- 322.

Cellular Location
Cytoplasm.

Tissue Location

Widely expressed. Isoform 5 is abundant in the brain. Isoform 4 is predominant in the liver, skeletal muscle and placenta.

Phospho-MAP4K4(S631) Antibody Blocking peptide - Protocols

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

- Blocking Peptides

Phospho-MAP4K4(S631) Antibody Blocking peptide - Images

Phospho-MAP4K4(S631) Antibody Blocking peptide - Background

M4K4, a member of the STE20 subfamily of Ser/Thr protein kinases, may play a role in the response to environmental stress and cytokines such as TNF-alpha. It appears to act upstream of the JUN N-terminal pathway. This protein is thought to interact with the SH3 domain of the adapter proteins Nck. HGK binds, via its CNH regulatory domain, to the N-terminal region of SPG3A. Expression appears to be ubiquitous, expressed in all tissue types examined. Isoform 5 appears to be more abundant in the brain, and isoform 4 is predominant in the liver, skeletal muscle and placenta.

Phospho-MAP4K4(S631) Antibody Blocking peptide - References

Wright, J.H., et al., Mol. Cell. Biol. 23(6):2068-2082 (2003).Yao, Z., et al., J. Biol. Chem. 274(4):2118-2125 (1999).Ishikawa, K., et al., DNA Res. 5(3):169-176 (1998).