

Mouse Map4k2 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP14965c**Specification**

Mouse Map4k2 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q61161](#)**Mouse Map4k2 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 26412**Other Names**

Mitogen-activated protein kinase kinase kinase 2, Germinal center kinase, GCK, MAPK/ERK kinase kinase kinase 2, MEK kinase kinase 2, MEKKK 2, Rab8-interacting protein, Map4k2, Rab8ip

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.

Mouse Map4k2 Antibody (Center) Blocking Peptide - Protein Information**Name** Map4k2**Synonyms** Rab8ip**Function**

Serine/threonine-protein kinase which acts as an essential component of the MAP kinase signal transduction pathway (PubMed:8643544). Acts as a MAPK kinase kinase (MAP4K) and is an upstream activator of the stress-activated protein kinase/c-Jun N- terminal kinase (SAP/JNK) signaling pathway and to a lesser extent of the p38 MAPKs signaling pathway (By similarity). Required for the efficient activation of JNKs by TRAF6-dependent stimuli, including pathogen-associated molecular patterns (PAMPs) such as polyinosine- polycytidine (poly(IC)), lipopolysaccharides (LPS), lipid A, peptidoglycan (PGN), or bacterial flagellin (By similarity). To a lesser degree, IL-1 and engagement of CD40 also stimulate MAP4K2- mediated JNKs activation (By similarity). The requirement for MAP4K2/GCK is most pronounced for LPS signaling, and extends to LPS stimulation of c-Jun phosphorylation and induction of IL-8 (By similarity). Enhances MAP3K1 oligomerization, which may relieve N- terminal mediated MAP3K1 autoinhibition and lead to activation following autophosphorylation (By similarity). Mediates also the SAP/JNK signaling pathway and the p38 MAPKs signaling pathway through activation of the MAP3Ks MAP3K10/MLK2 and MAP3K11/MLK3 (By similarity). May play a role in the regulation of vesicle targeting or fusion (By similarity).

Cellular Location

Cytoplasm. Basolateral cell membrane; Peripheral membrane protein. Golgi apparatus membrane; Peripheral membrane protein

Mouse Map4k2 Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

Mouse Map4k2 Antibody (Center) Blocking Peptide - Images**Mouse Map4k2 Antibody (Center) Blocking Peptide - Background**

Enhances MAP3K1 oligomerization, which may relieve amino-terminal mediated MAP3K1 autoinhibition and lead to activation following autophosphorylation. May play a role in the regulation of vesicle targeting or fusion.

Mouse Map4k2 Antibody (Center) Blocking Peptide - References

Zhong, J., et al. Proc. Natl. Acad. Sci. U.S.A. 106(11):4372-4377(2009)Ren, M., et al. Proc. Natl. Acad. Sci. U.S.A. 93(10):5151-5155(1996)