

Mouse Mknk2 Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP13922a**Specification**

Mouse Mknk2 Antibody (N-term) Blocking peptide - Product InformationPrimary Accession [Q8CDB0](#)**Mouse Mknk2 Antibody (N-term) Blocking peptide - Additional Information****Gene ID** 17347**Other Names**

MAP kinase-interacting serine/threonine-protein kinase 2, MAP kinase signal-integrating kinase 2, MAPK signal-integrating kinase 2, Mnk2, Mknk2, Mnk2

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP13922a was selected from the N-term region of Mouse Mknk2. 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.

Mouse Mknk2 Antibody (N-term) Blocking peptide - Protein Information**Name** Mknk2**Synonyms** Mnk2**Function**

Serine/threonine-protein kinase that phosphorylates SFPQ/PSF, HNRNPA1 and EIF4E. May play a role in the response to environmental stress and cytokines. Appears to regulate translation by phosphorylating EIF4E, thus increasing the affinity of this protein for the 7-methylguanosine-containing mRNA cap. Required for mediating PP2A- inhibition-induced EIF4E phosphorylation. Triggers EIF4E shuttling from cytoplasm to nucleus. Enhances the formation of EIF4F complex in pachytene spermatocytes, thus promoting mRNA translation during spermatogenesis. Displays a high basal kinase activity. Acts as a mediator of the suppressive effects of IFN γ on hematopoiesis. Negative regulator for signals that control generation of arsenic trioxide As(2)O(3)-dependent apoptosis and anti-leukemic responses. Involved in anti-apoptotic signaling in response to serum withdrawal.

Cellular Location

Cytoplasm. Nucleus, PML body

Tissue Location

Ubiquitously expressed in all tissues examined, with high levels in skeletal muscle and low levels in brain

Mouse Mknk2 Antibody (N-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

Mouse Mknk2 Antibody (N-term) Blocking peptide - Images**Mouse Mknk2 Antibody (N-term) Blocking peptide - Background**

Mknk2 may play a role in the response to environmental stress and cytokines. Appears to regulate transcription by phosphorylating EIF4E, thus increasing the affinity of this protein for the 7-methylguanosine-containing mRNA cap (By similarity).

Mouse Mknk2 Antibody (N-term) Blocking peptide - References

Ueda, T., et al. Proc. Natl. Acad. Sci. U.S.A. 107(32):13984-13990(2010)Furic, L., et al. Proc. Natl. Acad. Sci. U.S.A. 107(32):14134-14139(2010)Joshi, S., et al. Proc. Natl. Acad. Sci. U.S.A. 106(29):12097-12102(2009)Chrestensen, C.A., et al. Genes Cells 12(10):1133-1140(2007)Shenberger, J.S., et al. Int. J. Biochem. Cell Biol. 39(10):1828-1842(2007)