

Recombinant Mouse Mknk2 Protein, Myc/DDK-tagged

Cat. No. Mknk2-4084M Lot. No. (See product label)

SPECIFICATION

Product Overview Purified recombinant protein of mouse full-length MAP kinase-interacting serine/threonine kinase 2 (Mknk2), with C-terminal MYC/DDK tag, expressed in HEK293T cells.

Species Mouse

Source HEK293

Description The protein encoded by this gene is a serine/threonine-protein kinase, which is targeted by both the extracellular signal-regulated kinase and p38 mitogen-activated protein kinase pathways. This enzyme targets several substrates including eukaryotic translation initiation factor 4E and mammalian target of rapamycin, which are negatively regulated by its phosphorylation. Null mutant mice do not exhibit developmental or reproductive defects. However, mice null for both this protein and mitogen-activated protein kinase-interacting serine/threonine protein kinase 1 have delayed tumor development in phosphatase and tensin homolog mutant mice, indicating an oncogenic function for this gene in tumor development.

Molecular Mass 46.7 kDa

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Mknk2 MAP kinase-interacting serine/threonine kinase 2 [Mus musculus (house mouse)]
Official Symbol	Mknk2
Synonyms	MKNK2; MAP kinase-interacting serine/threonine kinase 2; MAP kinase-interacting serine/threonine-protein kinase 2; MAPK signal-integrating kinase 2; G protein-coupled receptor kinase 7; MAP kinase signal-integrating kinase 2; Mnk2; Gprk7; 2010016G11Rik
Gene ID	17347
mRNA Refseq	NM_021462
Protein Refseq	NP_067437
UniProt ID	Q8CDB0

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