Recombinant Human MKNK2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MKNK2-5064H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MKNK2 MS Standard C13 and N15-labeled recombinant protein (NP_951009) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a member of the calcium/calmodulin-dependent protein kinases (CAMK) Ser/Thr protein kinase family, which belongs to the protein kinase superfamily. This protein contains conserved DLG (asp-leu-gly) and ENIL (glu-asn-ile-leu) motifs, and an N-terminal polybasic region which binds importin A and the translation factor scaffold protein eukaryotic initiation factor 4G (eIF4G). This protein is one of the downstream kinases activated by mitogen-activated protein (MAP) kinases. It phosphorylates the eukaryotic initiation factor 4E (eIF4E), thus playing important roles in the initiation of mRNA translation, oncogenic transformation and malignant cell proliferation. In addition to eIF4E, this protein also interacts with von Hippel-Lindau tumor suppressor (VHL), ring-box 1 (Rbx1) and Cullin2 (Cul2), which are all components of the CBC(VHL) ubiquitin ligase E3 complex. Multiple alternatively spliced transcript variants have been found, but the full-length nature and biological activity of only two variants are determined. These two variants encode distinct isoforms which differ in activity and regulation, and in subcellular localization.
Molecular Mass	51.7 kDa

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AA Sequence	MVQKKPAELQGFHRSFKGQNPFELAFSLDQPDHGDSDFGLQCSARPDMPASQPIDI PDAKKRGKKKKRGRATDSFSGRFEDVYQLQEDVLGEGAHARVQTCINLITSQEYAV KIIEKQPGHIRSRVFREVEMLYQCQGHRNVLELIEFFEEEDRFYLVFEKMRGGSILSHI HKRRHFNELEASVVVQDVASALDFLHNKGIAHRDLKPENILCEHPNQVSPVKICDFD LGSGIKLNGDCSPISTPELLTPCGSAEYMAPEVVEAFSEEASIYDKRCDLWSLGVILYI LLSGYPPFVGRCGSDCGWDRGEACPACQNMLFESIQEGKYEFPDKDWAHISCAAK DLISKLLVRDAKQRLSAAQVLQHPWVQGCAPENTLPTPMVLQRNSCAKDLTSFAAE AIAMNRQLAQHDEDLAEEEAAGQGQPVLVRATSRCLQLSPPSQSKLAQRRQRASLS SAPVVLVGDHATRTRPLEQKLISEEDLAANDILDYKDDDDKV	
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining	
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.	
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.	
Concentration	50 μg/mL as determined by BCA	
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.	

GENE INFORMATION

Gene Name	MKNK2 MAP kinase interacting serine/threonine kinase 2 [Homo sapiens (human)]
Official Symbol	MKNK2
Synonyms	MKNK2; MAP kinase interacting serine/threonine kinase 2; G protein coupled receptor kinase 7, GPRK7; MAP kinase-interacting serine/threonine-protein kinase 2; MNK2; Putative map kinase interacting kinase; MAPK signal-integrating kinase 2; G protein-coupled receptor kinase 7; MAP kinase signal-integrating kinase 2; GPRK7;

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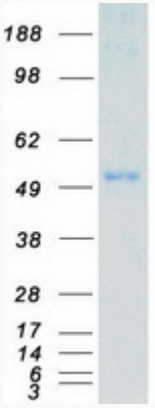
Gene ID	2872
mRNA Refseq	NM_199054
Protein Refseq	NP_951009
MIM	605069
UniProt ID	Q9HBH9
SDS-PAGE	

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