Recombinant Full Length Human MKNK2 Protein, C-Flag-tagged

Cat. No. MKNK2-1302HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human MKNK2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.

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Molecular Mass	51.7 kDa
AA Sequence	MVQKKPAELQGFHRSFKGQNPFELAFSLDQPDHGDSDFGLQCSARPDMPASQPIDI PDAKKRGKKKKRGR ATDSFSGRFEDVYQLQEDVLGEGAHARVQTCINLITSQEYAV KIIEKQPGHIRSRVFREVEMLYQCQGHR NVLELIEFFEEEDRFYLVFEKMRGGSILSH IHKRRHFNELEASVVVQDVASALDFLHNKGIAHRDLKPEN ILCEHPNQVSPVKICDF DLGSGIKLNGDCSPISTPELLTPCGSAEYMAPEVVEAFSEEASIYDKRCDLWS LGVIL YILLSGYPPFVGRCGSDCGWDRGEACPACQNMLFESIQEGKYEFPDKDWAHISCAA KDLISKLLV RDAKQRLSAAQVLQHPWVQGCAPENTLPTPMVLQRNSCAKDLTSFAA EAIAMNRQLAQHDEDLAEEEAAG QGQPVLVRATSRCLQLSPPSQSKLAQRRQRASLSSAPVVLVGDHATRTRPLEQKLI SEEDLAANDILDYKDDDDKV	
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.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Protein Kinase
Protein Pathways	Insulin signaling pathway, MAPK signaling pathway
Full Length	Full L.

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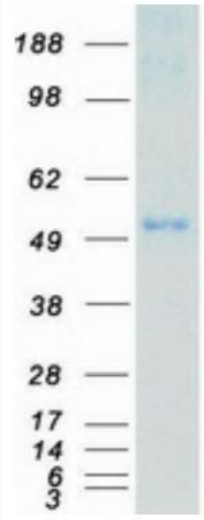
GENE INFORMATION

Gene Name	MKNK2 MAPK interacting serine/threonine kinase 2 [Homo sapiens (human)]
Official Symbol	MKNK2
Synonyms	MNK2; GPRK7
Gene ID	2872
mRNA Refseq	NM_199054.3
Protein Refseq	NP_951009.1
MIM	605069
UniProt ID	Q9HBH9



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Coomassie blue staining of purified MKNK2 protein.

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