

Recombinant Human MKNK2 Protein(72-385), His tagged

Cat. No. MKNK2-37H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MKNK2 (amino acid residues 72–385) with His tag, which includes the kinase domain, is expressed in E. coli as a single, non-glycosylated polypeptide chain. It is well purified by affinity, ion exchange and gel filtration chromatographic techniques.
Species	Human
Source	E.coli
ProteinLength	72-385
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.

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Molecular Mass	35.7 kDa
AA Sequence	GSTDSFSGRFEDVYQLQEDVLGEGAHARVQTCINLITSQEYAVKIIKQPGHIRSRVF REVELYQCQGHRNVLELIEFFEEEDRFYLVFEKMRGGSILSHHKRRHFNELEASV VVQDVASALDFLHNKGIAHRDLKPENILCEHPNQVSPVKICDFDLGSGIKLNGDCSPI STPELLTPCGSAEYMAPEVVVEAFSEEASIYDKRCDLWSLGVILYILLSGYPPFVGRCG SDCGWDRGEACPACQNMLFESIQEGKYEFPDKDWAHISCAAKDLISKLLVRDAKQR LSAAQVLQHPWVQGCAPENTLPTPMVLQR
Purity	> 97% by SDS-PAGE and HPLC analyses.
Usage	Protein binding assay, small molecule inhibitor screening, substrate of kinase, antigen, ELSA, Western blot, crystallization and co-crystallization study.
Storage	Upon delivery aliquot and store at -80 centigrade. Avoid multiple freeze-thaw cycles. The protein is stable for 12 months at -80 centigrade, for 2-4 weeks at 4 centigrade.
Concentration	0.5 mg/mL
Storage Buffer	MNK2 D228G, 2 mM DTT, 20% glycerol, 0.02% NaN ₃ , 0.1 mM EDTA, 150 mM NaCl, 50 mM Tris-HCl pH7.5.

GENE INFORMATION

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

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kinase 2; MAPK signal-integrating kinase 2; EC 2.7.11.1

Gene ID 2872

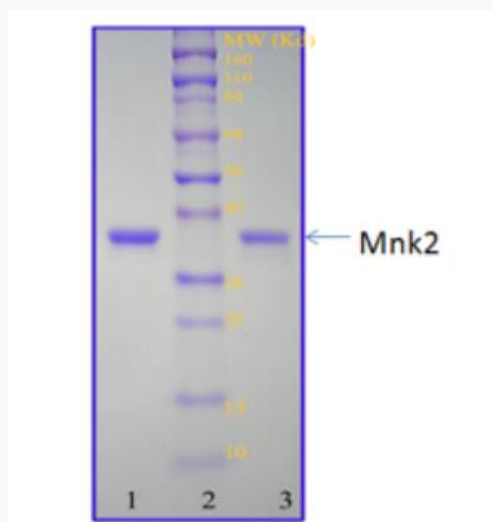
mRNA Refseq NM_017572

Protein Refseq NP_060042

MIM 605069

UniProt ID Q9HBH9

SDS-PAGE



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