

Recombinant Full Length Human MKNK2 Protein, GST-tagged

Cat. No. MKNK2-6342HF Lot. No. (See product label)

SPECIFICATION

Product Overview Human MKNK2 full-length ORF (AAH18345, 1 a.a. - 158 a.a.) recombinant protein with GST-tag at N-terminal.

Species Human

Source In Vitro Cell Free System

ProteinLength 158 amino acids

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. [provided by RefSeq, Aug 2011]

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Molecular Mass	43.12 kDa
AA Sequence	MAPEVVEAFSEEASIYDKRCDLWSLGVILYILLSGYPPFVGRGSDCGWDRGEACP ACQNMLFESIQEGKYEFDPKDWAHISCAAKDLISKLLVRDAKQRLSAAQVLQHPWV QGCAPENTLPTPMVLQRWDSHFLLPPHPCRIVRPGGLVRTVTVNE
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	MKNK2 MAP kinase interacting serine/threonine kinase 2 [Homo sapiens]
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;
Gene ID	2872
mRNA Refseq	NM_017572

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Protein Refseq	NP_060042
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MIM	605069
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UniProt ID	Q9HBH9
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