



Anti-MKNK2 (full length) polyclonal antibody (DPAB-DC1444)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen 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.

Immunogen

MKNK2 (AAH18345, 1 a.a. ~ 158 a.a) full-length recombinant protein with GST tag. The sequence is
MAPEVVEAFSEEASIYDKRCDLWSLGVILYILLSGYPPFVGRCGSDCGWDRGEACPACQN
MLFESIQEGKYEFFDKDWAHISCAAKDLISKLLVRDAKQRLSAAQVLQHPWVQGCAPENT
LPTPMVLQRWDSDHFLLPPHPCRIHVRPGGLVRTVTVNE

Source/Host

Mouse

Species Reactivity

Human

Conjugate

Unconjugated

Applications

WB (Recombinant protein), ELISA,

Size

50 µl

Buffer	50 % glycerol
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

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; MNK2; GPRK7; 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;
Entrez Gene ID	2872
Protein Refseq	NP_060042
UniProt ID	Q9HBH9
Chromosome Location	19p13.3
Pathway	HIF-1 signaling pathway; Insulin signaling pathway; MAPK signaling pathway;
Function	ATP binding; metal ion binding; protein serine/threonine kinase activity;
