

Phospho MNK1 (T385) Cell-Based Colorimetric ELISA Kit

Catalog No :	KA1755C
Reactivity :	Human;Mouse;Rat
Applications :	ELISA
Gene Name :	MKNK1
Human Gene Id :	8569
Human Swiss Prot No :	Q9BUB5
Mouse Swiss Prot No :	O08605
Rat Swiss Prot No :	Q4G050
Storage Stability :	2-8°C/6 months
Detection Method :	Colorimetric
Background :	<p>catalytic activity:ATP + a protein = ADP + a phosphoprotein.,cofactor:Magnesium.,enzyme regulation:Phosphorylated and activated by the p38 kinases and kinases in the Erk pathway.,function:May play a role in the response to environmental stress and cytokines. Appears to regulate transcription by phosphorylating EIF4E, thus increasing the affinity of this protein for the 7-methylguanosine-containing mRNA cap.,PTM: Dual phosphorylation of Thr-250 and Thr-255 activates the kinase. Phosphorylation of Thr-385 activates the kinase.,similarity:Belongs to the protein kinase superfamily.,similarity:Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family.,similarity:Contains 1 protein kinase domain.,subunit:Interacts with the C-terminal regions of EIF4G1 and EIF4G2. Also binds to dephosphorylated ERK1 and ERK2, and to the p38 kinases.,tissue specificity:Ubiquitous.,</p>
Function :	<p>regulation of translation, protein amino acid phosphorylation, phosphorus metabolic process, phosphate metabolic process, intracellular signaling cascade, protein kinase cascade, posttranscriptional regulation of gene expression,phosphorylation, regulation of cellular protein metabolic process,</p>
Subcellular Location :	[Isoform 2]: Cytoplasm.; [Isoform 3]: Cytoplasm. Nucleus.

Expression : Ubiquitous.

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