

## Phospho MNK1 (T385) Cell-Based Colorimetric ELISA Kit

<b>Catalog No :</b>	KA1755C
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	ELISA
<b>Gene Name :</b>	MKNK1
<b>Human Gene Id :</b>	8569
<b>Human Swiss Prot No :</b>	Q9BUB5
<b>Mouse Swiss Prot No :</b>	O08605
<b>Rat Swiss Prot No :</b>	Q4G050
<b>Storage Stability :</b>	2-8°C/6 months
<b>Detection Method :</b>	Colorimetric
<b>Background :</b>	<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>
<b>Function :</b>	<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>
<b>Subcellular Location :</b>	[Isoform 2]: Cytoplasm.; [Isoform 3]: Cytoplasm. Nucleus.

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**Expression :** Ubiquitous.

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## Products Images