



# MNK2 (Phospho-Thr244) mouse mAb

<b>Catalog No</b>	BYmab-10477
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human; Mouse;Rat
<b>Applications</b>	WB
<b>Gene Name</b>	MKNK2 GPRK7 MNK2
<b>Protein Name</b>	MNK2 (Phospho-Thr244)
<b>Immunogen</b>	Synthesized peptide derived from human MNK2 (Phospho-Thr244)
<b>Specificity</b>	This antibody detects endogenous levels of MNK2 (Phospho-Thr244) at Human, Mouse,Rat
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, and 0.132% sodium azide.
<b>Source</b>	Monoclonal, Mouse,IgG
<b>Purification</b>	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	WB 1:500-2000
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	MAP kinase-interacting serine/threonine-protein kinase 2 (EC 2.7.11.1) (MAP kinase signal-integrating kinase 2) (MAPK signal-integrating kinase 2) (Mnk2)
<b>Observed Band</b>	
<b>Cell Pathway</b>	[Isoform 2]: Nucleus, PML body.; [Isoform 1]: Cytoplasm.
<b>Tissue Specificity</b>	Ubiquitously expressed in all tissues examined. Isoform 2 is expressed at higher levels in the ovary than is isoform 1.
<b>Function</b>	catalytic activity:ATP + a protein = ADP + a phosphoprotein.,cofactor:Binds 1 zinc ion per subunit.,cofactor:Magnesium.,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-244 and Thr-249 activates the kinase. Phosphorylation of Thr-379 activates the kinase.,similarity:Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family.,similarity:Contains 1 protein kinase domain.,subunit:Monomer. Interacts with the C-terminal regions of EIF4G1 and EIF4G2. Also binds to dephosphorylated ERK1 and ERK2. Isoform 2 interacts with ESR2.,tissue specificity:Ubiquitously expressed in all tissues examined.

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Isoform 2 is expressed at higher levels in the ovary than is isoform 1.,

## Background

MAP kinase interacting serine/threonine kinase 2(MKNK2) Homo sapiens  
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.

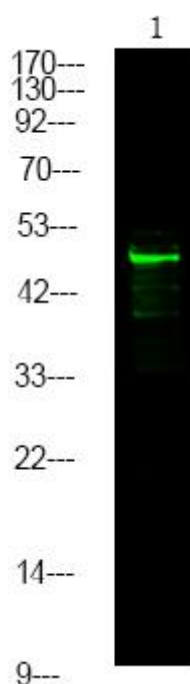
## matters needing attention

Avoid repeated freezing and thawing!

## Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images



Western Blot analysis of various cells using MNK2 (Phospho-Thr244) mouse mAb

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