



# MLK3 (Phospho Thr277+Ser281) mouse mAb

<b>Catalog No</b>	BYmab-14629
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse;Rat
<b>Applications</b>	WB
<b>Gene Name</b>	MAP3K11 MLK3 PTK1 SPRK
<b>Protein Name</b>	MLK3 (Phospho Thr277+Ser281)
<b>Immunogen</b>	Synthesized peptide derived from human MLK3 (Phospho Thr277+Ser281)
<b>Specificity</b>	This antibody detects endogenous levels of Human,Mouse,Rat MLK3 (Phospho Thr277+Ser281)
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% 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>	Mitogen-activated protein kinase kinase kinase 11 (EC 2.7.11.25;Mixed lineage kinase 3;Src-homology 3 domain-containing proline-rich kinase)
<b>Observed Band</b>	
<b>Cell Pathway</b>	Cytoplasm, cytoskeleton, microtubule organizing center, centrosome . Location is cell cycle dependent.
<b>Tissue Specificity</b>	Expressed in a wide variety of normal and neoplastic tissues including fetal lung, liver, heart and kidney, and adult lung, liver, heart, kidney, placenta, skeletal muscle, pancreas and brain.
<b>Function</b>	catalytic activity:ATP + a protein = ADP + a phosphoprotein.,cofactor:Magnesium.,enzyme regulation:Homodimerization via the leucine zipper domains is required for autophosphorylation and subsequent activation.,function:Activates the JUN N-terminal pathway. Required for serum-stimulated cell proliferation and for mitogen and cytokine activation of MAPK14 (p38), MAPK3 (ERK) and MAPK8 (JNK1). Plays a role in mitogen-stimulated phosphorylation and activation of BRAF, but does not phosphorylate BRAF directly. Influences microtubule organization during the cell cycle.,PTM:Autophosphorylation on serine and threonine residues within the

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activation loop plays a role in enzyme activation. Thr-277 is likely to be the main autophosphorylation site. Phosphorylation of Ser-555 and Ser-556 is induced by CDC42.,similarity:Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. MAP

**Background**

The protein encoded by this gene is a member of the serine/threonine kinase family. This kinase contains a SH3 domain and a leucine zipper-basic motif. This kinase preferentially activates MAPK8/JNK kinase, and functions as a positive regulator of JNK signaling pathway. This kinase can directly phosphorylate, and activates IkapMAB kinase alpha and beta, and is found to be involved in the transcription activity of NF-kapMAB mediated by Rho family GTPases and CDC42. [provided by RefSeq, Jul 2008],

**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

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