



# MK13 Monoclonal Antibody

Catalog No	BYmab-06484
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	MAPK13 PRKM13 SAPK4
Protein Name	Mitogen-activated protein kinase 13 (MAP kinase 13) (MAPK 13) (EC 2.7.11.24) (Mitogen-activated protein kinase p38 delta) (MAP kinase p38 delta) (Stress-activated protein kinase 4)
Immunogen	Synthesized peptide derived from human protein . at AA range: 200-280
Specificity	MK13 Monoclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	40kD
Cell Pathway	intracellular,cytosol,
Tissue Specificity	Expressed in testes, pancreas, small intestine, lung and kidney. Abundant in macrophages, also present in neutrophils, CD4+ T-cells, and endothelial cells.
Function	catalytic activity:ATP + a protein = ADP + a phosphoprotein.,cofactor:Magnesium.,domain:The TXY motif contains the threonine and tyrosine residues whose phosphorylation activates the MAP kinases.,enzyme regulation:Activated by phosphorylation on threonine and tyrosine by either of two dual specificity kinases, MAP2K3 and MAP2K6.,function:Responds to activation by environmental stress and pro-inflammatory cytokines by phosphorylating downstream targets. Plays a role in the regulation of protein translation by phosphorylating and inactivating EE2K.,PTM:Dually phosphorylated on Thr-180 and Tyr-182, which activates the enzyme.,similarity:Belongs to the protein kinase superfamily. CMGC Ser/Thr

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protein kinase family. MAP kinase subfamily.,similarity:Contains 1 protein kinase domain.,tissue specificity:Expressed in testes, pancreas, small intestine, lung and kidney. Abundant in macrophages, al

#### Background

This gene encodes a member of the mitogen-activated protein (MAP) kinase family. MAP kinases act as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development. The encoded protein is a p38 MAP kinase and is activated by proinflammatory cytokines and cellular stress. Substrates of the encoded protein include the transcription factor ATF2 and the microtubule dynamics regulator stathmin. Alternatively spliced transcript variants have been observed for this gene. [provided by RefSeq, Jul 2012],

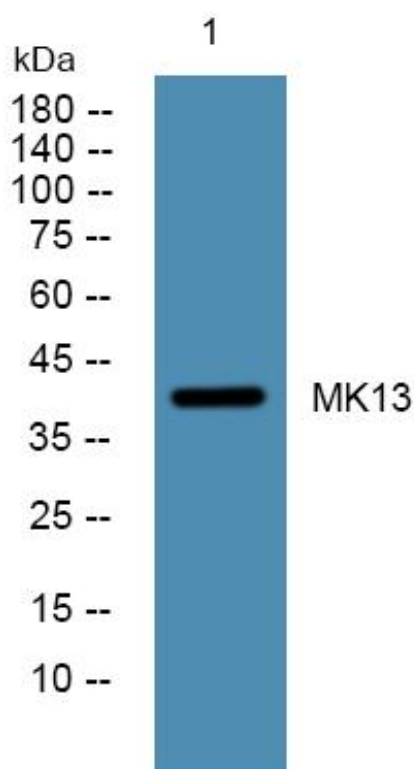
#### matters needing attention

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 MK13 Monoclonal Antibody