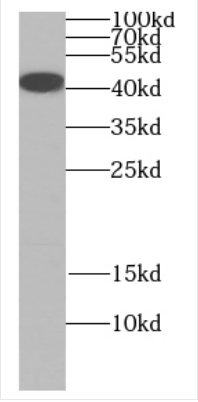
MAPK13 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	MAPK13, Monoclonal Antibody
Full Product Name	MAPK13 Mouse Monoclonal
Product Gene Name	anti-MAPK13 antibody
Clonality	Monoclonal
Isotype	IgG2a
Host	Mouse
Species Reactivity	Human, Mouse
Form/Format	Liquid
Purity/Purification	>=95% as determined by SDS-PAGE Protein A+G purification
Preparation and Storage	PBS with 0.02% sodium azide and 50% glycerol pH 7.3, -20 degree C for 24 months (Avoid repeated freeze / thaw cycles.)
Molecular Weight	28,779 Da
OMIM	602899
Immunogen	Mitogen-activated protein kinase 13
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-MAPK13 antibody	ELISA (EIA), Western Blot (WB)
Related Product Information for anti-MAPK13 antibody	MBS7601223 is an antibody targeting MAPK13. Also known as MAPK13 Mouse Monoclonal. Reactive in Human, Mouse. Host: Mouse.
Other Notes	Small volumes of anti-MAPK13 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-MAPK13 antibody
HepG2 cells were subjected to SDS PAGE followed by western blot with MBS7601223 (MAPK13 antibody) at dilution of 1:1000

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MAPK13. It may not necessarily be applicable to this product.

NCBI GI #	4506085
NCBI GeneID	5603
NCBI Accession #	NP_002745.1
UniProt Secondary Accession #	O14739; O15124; Q5U4A5; Q6FI46; Q9UNU0
UniProt Related Accession #	O15264
GenBank Nucleotide #	NM_002754.4
NCBI Official Full Name	mitogen-activated protein kinase 13
NCBI Official Synonym Full Names	mitogen-activated protein kinase 13
NCBI Official Symbol	MAPK13
NCBI Official Synonym Symbols	SAPK4; PRKM13; MAPK 13; MAPK-13; p38delta
UniProt Protein Name	Mitogen-activated protein kinase 13
UniProt Synonym Protein Names	Mitogen-activated protein kinase p38 delta; MAP kinase p38 delta; Stress-activated protein kinase 4
UniProt Gene Name	MAPK13
UniProt Synonym Gene Names	PRKM13; SAPK4; MAP kinase 13; MAPK 13; MAP kinase p38 delta
UniProt Entry Name	MK13_HUMAN
NCBI Protein Information	mitogen-activated protein kinase 13
NCBI Summary for MAPK13	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]

UniProt Comments for MAPK13	P38D: a proline-directed ser/thr MAP kinase, and one of four p38 kinases that play important roles in cellular responses evoked by extracellular stimuli such as proinflammatory cytokines or physical stress leading to direct activation of transcription factors such as ELK1 and ATF2. Accordingly, p38 MAPKs phosphorylate a broad range of proteins and it has been estimated that they may have a few hundred substrates each. MAPK13 is one of the less studied p38 MAPK isoforms. Some of the targets are downstream kinases such as MAPKAPK2, which are activated through phosphorylation and further phosphorylate additional targets. Plays a role in the regulation of protein translation by phosphorylating and inactivating EEF2K. Involved in cytoskeletal remodeling through phosphorylation of tau and STH. Mediates UV irradiation induced up-regulation of the gene expression of CXCL14. Plays an important role in the regulation of epidermal keratinocyte differentiation, apoptosis and skin tumor development. Phosphorylates the transcriptional activator Myb in response to stress which leads to rapid Myb degradation via a proteasome-dependent pathway. Phosphorylates and down-regulates PKD1 during regulation of insulin secretion in pancreatic beta cells. Expressed in testes, pancreas, small intestine, lung and kidney. Abundant in macrophages, also present in neutrophils, CD4+ T-cells, and endothelial cells. This description may include information from UniProtKB Protein type: Protein kinase, Ser/Thr (non-receptor); Protein kinase, CMGC; EC 2.7.11.24; Kinase, protein; CMGC group; MAPK family; MAPK/p38 subfamily; p38 subfamily Chromosomal Location of Human Ortholog: 6p21.31 Cellular Component: cytosol Molecular Function: ATP binding; MAP kinase activity; protein binding; protein serine/threonine kinase activity Biological Process: cell cycle; MAPKKK cascade; peptidyl-serine phosphorylation; positive regulation of inflammatory response; positive regulation of interleukin-6 production; regulation of transcription, DNA-dependent; response to osmotic stress; response to stress; transcription, DNA-dependent; vascular endothelial growth factor receptor signaling pathway
Research Articles on MAPK13	**1.** MAPK13 undergoes a larger interlobe configurational rearrangement upon activation compared with MAPK14.
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