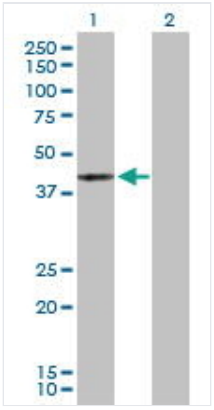
MAPK13 Antibody – Rabbit Polyclonal

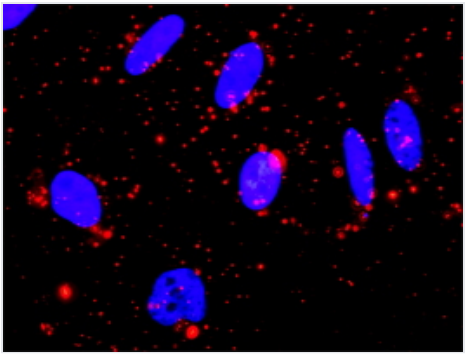
PRODUCT OVERVIEW

Product Name	MAPK13, Polyclonal Antibody
Full Product Name	MAPK13 (Mitogen-activated Protein Kinase 13, MAPK 13, MAP Kinase 13, PRKM13, Mitogen-activated Protein Kinase p38 delta, MAP Kinase p38 del
Product Gene Name	anti-MAPK13 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human MAPK13.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo
Molecular Weight	28,779 Da
OMIM	602899
3D Structure	ModBase 3D Structure for O15264
Immunogen	Full length human MAPK13, aa1-538 (NP_002745.1).
Immunogen Sequence	MSLIRKKGFYKQDVNKTAWELPKTYVSPTHVGSGAYGSVCSAIDKRSGEKVAIKKLSRPFQSEIFAKRAYRELLLLKHMQHENVIGLLDVFTPASSLRNFYD
Conjugate	APC
Note	Preservative Free
Product Categories/Family for anti-MAPK13 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-MAPK13 antibody	Western Blot (WB)
Application Notes for anti-MAPK13 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-MAPK13 antibody	MAP kinase p38 delta, a MAPK type protein kinase, is an environmental stress-and inflammatory cytokine-induced kinase that is associated with the re
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 nece

Searchable Terms for MAPK13 purchase	MBS6384885 is an antibody targeting MAPK13. Also known as MAPK13 (Mitogen-activated Protein Kinase 13, MAPK 13, MAP Kinase 13, PRKM13, M



Western Blot (WB) of anti-MAPK13 antibody
Western Blot analysis of MAPK13 expression in transfected 293T cell line by MAPK13 polyclonal antibody. Lane 1: MAPK13 transfected lysate (42.1kD). Lane 2: Non-transfected lysate.



Testing Data of anti-MAPK13 antibody
Proximity Ligation Analysis (PLA) of protein-protein interactions between MAPK13 and MAPKAPK3 HeLa cells were stained with MAPK13 rabbit purified polyclonal 1:1200 and MAPKAPK3 mouse monoclonal antibody 1:50. Signals were detected 30 Detection Kit 613 (red), and nuclei were counterstained with DAPI (blue). Each red dot represents the detection of protein-protein interaction complex.

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 Primary Accession #	O15264
UniProt Secondary Accession #	O14739; O15124; Q5U4A5; Q6FI46; Q9UNU0
UniProt Related Accession #	O15264
GenBank Nucleotide #	NM_002754
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; MAP kinase 13; MAP kinase p38 delta; mitogen-activated protein kinase p38 delta; stress-activated protein kinase 4

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, CMGC; Protein kinase, Ser/Thr (non-receptor); Kinase, protein; EC 2.7.11.24; CMGC group; MAPK family; p38 subfamily; MAPK/p38 subfamily Chromosomal Location of Human Ortholog: 6p21.31 Cellular Component: cytosol Molecular Function: MAP kinase activity; protein serine/threonine kinase activity; protein binding; ATP binding Biological Process: peptidyl-serine phosphorylation; regulation of transcription, DNA-dependent; nerve growth factor receptor signaling pathway; transcription, DNA-dependent; Ras protein signal transduction; MAPKKK cascade; response to stress; positive regulation of interleukin-6 production; vascular endothelial growth factor receptor signaling pathway; cell cycle; response to osmotic stress; positive regulation of inflammatory response
Research Articles on MAPK13	**1.** PKCdelta activates a MEKK1/MEK3/p38delta MAPK cascade to increase p53 levels and p53 drives p21(Cip1) gene expression.
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