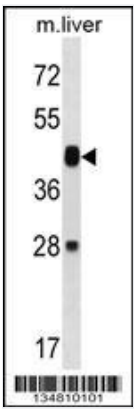
MAP2K6 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Map2k6, Polyclonal Antibody
Full Product Name	Map2k6, NT (Map2k6, Prkmk6, Sapkk3, Dual specificity mitogen-activated protein kinase kinase 6, MAPK/ERK kinase 6, SAPKK3) (Biotin)
Product Gene Name	anti-Map2k6 antibody
Product Synonym Names	Map2k6; Prkmk6; Sapkk3; Dual specificity mitogen-activated protein kinase kinase 6; MAPK/ERK kinase 6; SAPKK3
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	37,432 Da
3D Structure	ModBase 3D Structure for P70236
Immunogen	Mouse Map2k6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 29-57 amino acids from the N-terminal region of Mouse Map2k6.
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-Map2k6 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-Map2k6 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-Map2k6 antibody	WB: 1:100-500 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-Map2k6 antibody	Map2k6 catalyzes the concomitant phosphorylation of a threonine and a tyrosine residue in MAP kinase p38 exclusively.
Product References and Citations for anti-Map2k6 antibody	Remy, G., et al. Cell. Signal. 22(4):660-667(2010). Sorkin, L.S., et al. Neuroscience 162(2):462-471(2009). Yoshizawa, T., et al. J. Immunol. 183(2):1360-1367(2009). Bulat, N., et al. J. Lipid Res. 50(1):81-89(2009). Yamashita, T., et al. Biochem. Biophys. Res. Commun. 365(2):252-257(2008).
Other Notes	Small volumes of anti-Map2k6 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.

Searchable Terms for Map2k6 purchase	MBS6318519 is an antibody targeting Map2k6. Also known as Map2k6, NT (Map2k6, Prkmk6, Sapkk3, Dual specificity mitogen-activated protein kinase kinase 6, MAPK/ERK kinase 6, SAPKK3) (Biotin). Reactive in Mouse. Host: Rabbit.



Western Blot (WB) of anti-Map2k6 antibody
Mouse Map2k6 Antibody (N-term) western blot analysis in mouse liver tissue lysates (35ug/lane).This demonstrates the Map2k6 antibody detected the Map2k6 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Map2k6. It may not necessarily be applicable to this product.

NCBI GI #	33859654
NCBI GeneID	26399
NCBI Accession #	NP_036073.1
UniProt Primary Accession #	P70236
UniProt Related Accession #	P70236
GenBank Nucleotide #	NM_011943.3
NCBI Official Full Name	dual specificity mitogen-activated protein kinase kinase 6 isoform 1
NCBI Official Synonym Full Names	mitogen-activated protein kinase kinase 6
NCBI Official Symbol	Map2k6
NCBI Official Synonym Symbols	MEK6; MKK6; MAPKK6; Prkmk6; SAPKK3; MAPKK 6
UniProt Protein Name	Dual specificity mitogen-activated protein kinase kinase 6
UniProt Synonym Protein Names	MAPK/ERK kinase 6; MEK 6; SAPKK3
Protein Family	Dual specificity mitogen-activated protein kinase kinase
UniProt Gene Name	Map2k6
UniProt Synonym Gene Names	Prkmk6; Sapkk3; MAP kinase kinase 6; MAPKK 6; MEK 6
NCBI Protein Information	dual specificity mitogen-activated protein kinase kinase 6

UniProt Comments for Map2k6	Dual specificity protein kinase which acts as an essential component of the MAP kinase signal transduction pathway. With MAP3K3/MKK3, catalyzes the concomitant phosphorylation of a threonine and a tyrosine residue in the MAP kinases p38 MAPK11, MAPK12, MAPK13 and MAPK14 and plays an important role in the regulation of cellular responses to cytokines and all kinds of stresses. Especially, MAP2K3/MKK3 and MAP2K6/MKK6 are both essential for the activation of MAPK11 and MAPK13 induced by environmental stress, whereas MAP2K6/MKK6 is the major MAPK11 activator in response to TNF. MAP2K6/MKK6 also phosphorylates and activates PAK6. The p38 MAP kinase signal transduction pathway leads to direct activation of transcription factors. Nuclear targets of p38 MAP kinase include the transcription factors ATF2 and ELK1. Within the p38 MAPK signal transduction pathway, MAP3K6/MKK6 mediates phosphorylation of STAT4 through MAPK14 activation, and is therefore required for STAT4 activation and STAT4-regulated gene expression in response to IL-12 stimulation. The pathway is also crucial for IL-6-induced SOCS3 expression and down-regulation of IL-6-mediated gene induction; and for IFNG-dependent gene transcription. Has a role in osteoclast differentiation through NF-kappa-B transactivation by TNFSF11, and in endochondral ossification and since SOX9 is another likely downstream target of the p38 MAPK pathway. MAP2K6/MKK6 mediates apoptotic cell death in thymocytes. Acts also as a regulator for melanocytes dendricity, through the modulation of Rho family GTPases.
Research Articles on Map2k6	**1.** acts as a repressor of UCP1 expression, suggesting that its inhibition promotes adipose tissue browning and increases organismal energy expenditure
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