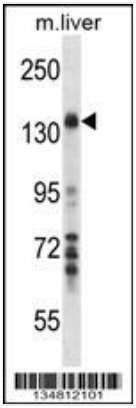
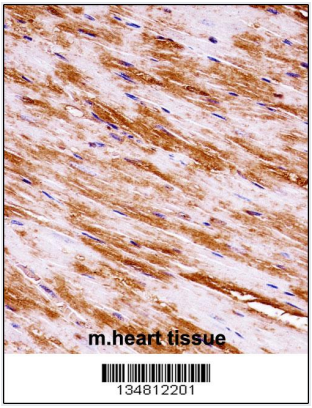
MAP3K1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Map3k1, Polyclonal Antibody
Full Product Name	Mouse Map3k1 Antibody (C-term)
Product Gene Name	anti-Map3k1 antibody
Product Synonym Names	Mitogen-activated protein kinase kinase kinase 1; MAPK/ERK kinase kinase 1; MEK kinase 1; MEKK 1; Map3k1; Mekk; Mekk1
Clonality	Polyclonal
Isotype	Rabbit Ig
Host	Rabbit
Species Reactivity	Mouse (Predicted Reactivity: Human)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Concentration	Vial Concentration: 0.5 (lot specific)
Specificity	This Mouse Map3k1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1194-1221 amino acids from the C-terminal region of mouse Map3k1.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	Map3k1 peptide (MBS9220955) is used for blocking the activity of Map3k1 antibody (MBS9212861)
Molecular Weight	161289
Immunogen Sequence Positions	1194-1221
3D Structure	ModBase 3D Structure for P53349
Antigen Type	Synthetic Peptide
Antigen Source	MOUSE
Product Categories/Family for anti-Map3k1 antibody	Cancer; Signal Transduction
Applications Tested/Suitable for anti-Map3k1 antibody	Western Blot (WB), ELISA (EIA), Immunohistochemistry (IHC)
Application Notes for anti-Map3k1 antibody	WB~~1:1000
Related Product Information for anti-Map3k1 antibody	Component of a protein kinase signal transduction cascade. Activates the ERK and JNK kinase pathways by phosphorylation of MAP2K1 and MAP2K4. Activates CHUK and IKBKB, the central protein kinases of the NF-kappa-B pathway.
Other Notes	Small volumes of anti-Map3k1 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 Map3k1 purchase	MBS9212861 is an antibody targeting Map3k1. Also known as Mouse Map3k1 Antibody (C-term). Reactive in Mouse (Predicted Reactivity: Human). Host: Rabbit.



Western Blot (WB) of anti-Map3k1 antibody
Mouse Map3k1 Antibody (C-term) western blot analysis in mouse liver tissue lysates (35ug/lane).This demonstrates the Map3k1 antibody detected the Map3k1 protein (arrow).



Immunohistochemistry (IHC) of anti-Map3k1 antibody
Mouse Map3k1 Antibody (C-term) (MBS9212861)immunohistochemistry analysis in formalin fixed and paraffin embedded m.heart tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of Mouse Map3k1 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Map3k1. It may not necessarily be applicable to this product.

NCBI GI #	19860665
NCBI Accession #	P53349.3
UniProt Primary Accession #	P53349
UniProt Secondary Accession #	Q60831; Q9R0U3; Q9R256
NCBI Official Full Name	Mitogen-activated protein kinase kinase kinase 1
UniProt Protein Name	Mitogen-activated protein kinase kinase kinase 1
UniProt Synonym Protein Names	MAPK/ERK kinase kinase 1; MEK kinase 1; MEKK 1
Protein Family	MAP3K12-binding inhibitory protein
UniProt Gene Name	Map3k1
UniProt Synonym Gene Names	Mekk; Mekk1; MEK kinase 1; MEKK 1
UniProt Entry Name	M3K1_MOUSE

UniProt Comments for Map3k1	MEKK1: a protein kinase of the STE11 family. Phosphorylates and activates MKK4 and -7, which in turn activate JNK1, -2 and -3. Contains 1 RING-type zinc finger. The RING finger domain of MEKK1 exhibits E3 ubiquitin ligase activity toward c-Jun. c-Jun is downregulated in response to osmotic stress via ubiquitination-mediated degradation by the RING finger domain of MEKK1. Overexpressed/overactivated in multiple tumor types. The Mek1/2 inhibitor U0126 blocks export of influenza viral particles and has been suggested as an antiviral treatment. Single mutations at the same point of each gene also associated with cardiofaciocutaneous syndrome, (also linked with Braf and Kras mutations), displaying morphological, cardiac and mental defects. Inhibitors: U0126, CI-1040/PD184352, PD-0325901 (Phase I cancer), ARRY-142886 (Phase 1, cancer). Protein type: Protein kinase, STE; Protein kinase, Ser/Thr (non-receptor); Kinase, protein; Ligase; Ubiquitin conjugating system; Ubiquitin ligase; EC 2.7.11.25; STE group; STE11 family Cellular Component: cytoskeleton; membrane; cytoplasm; intracellular; cell junction Molecular Function: sphingolipid binding; JUN kinase kinase kinase activity; zinc ion binding; mitogen-activated protein kinase kinase binding; metal ion binding; nucleotide binding; ubiquitin-protein ligase activity; JUN kinase kinase activity; protein kinase binding; protein kinase activity; transferase activity; protein serine/threonine kinase activity; JUN kinase binding; protein binding; MAP kinase kinase kinase activity; transferase activity, transferring phosphorus-containing groups; mitogen-activated protein kinase binding; kinase activity; ATP binding Biological Process: camera-type eye development; activation of MAPKK activity; wound healing; MAPKKK cascade; protein ubiquitination; regulation of cell migration; protein amino acid phosphorylation; activation of JNK activity; apoptotic mitochondrial changes; positive regulation of actin filament polymerization; transforming growth factor beta receptor signaling pathway; JNK cascade; phosphorylation; activation of JNKK activity
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