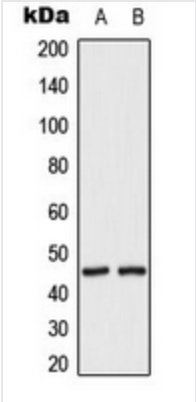
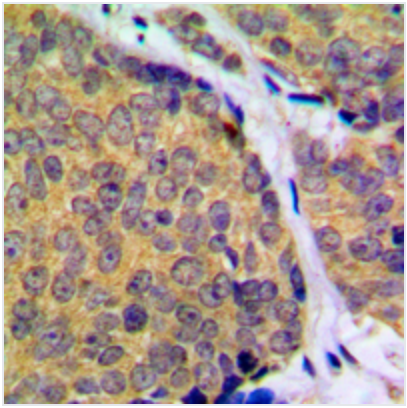
MAP2K2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MKK2 (MAP2K2), Polyclonal Antibody
Full Product Name	Anti-MKK2 (pT394) Phospho Antibody
Product Gene Name	anti-MAP2K2 antibody
Product Synonym Names	MEK2; MKK2; PRKMK2; Dual specificity mitogen-activated protein kinase kinase 2; MAP kinase kinase 2; MAPKK 2; ERK activator kinase 2; MAPK/ERK kinase 2; MEK 2
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Monkey
Form/Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Purity/Purification	The antibody was purified by immunogen affinity chromatography.
Specificity	Recognizes endogenous levels of MKK2 (pT394) protein.
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C for one year. Avoid freeze/thaw cycles.
Antibody/Peptide Pairs	MKK2 peptide (MBS8213083) is used for blocking the activity of MKK2 antibody (MBS8211723)
Molecular Weight	44,424 Da
OMIM	601263
3D Structure	ModBase 3D Structure for P36507
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human MKK2. The exact sequence is proprietary.
Applications Tested/Suitable for anti-MAP2K2 antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP)
Application Notes for anti-MAP2K2 antibody	WB (1/500 - 1/1000), IHC (1/100 - 1/200), IP (1/10 - 1/100)
Related Product Information for anti-MAP2K2 antibody	MBS8211723 is an antibody targeting MAP2K2. Also known as Anti-MKK2 (pT394) Phospho Antibody. Reactive in Human, Monkey. Host: Rabbit. Rabbit polyclonal antibody to MKK2 (pT394)
Other Notes	Small volumes of anti-MAP2K2 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-MAP2K2 antibody
Western blot analysis of MKK2 (pT394) expression in HeLa UV-treated (A), HepG2 UV-treated (B) whole cell lysates.



Immunohistochemistry (IHC) of anti-MAP2K2 antibody
Immunohistochemical analysis of MKK2 (pT394) staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MAP2K2. It may not necessarily be applicable to this product.

NCBI GI #	13489054
NCBI GeneID	5605
NCBI Accession #	NP_109587.1
UniProt Primary Accession #	P36507
UniProt Related Accession #	P36507
GenBank Nucleotide #	NM_030662.3
NCBI Official Full Name	dual specificity mitogen-activated protein kinase kinase 2
NCBI Official Synonym Full Names	mitogen-activated protein kinase kinase 2
NCBI Official Symbol	MAP2K2
NCBI Official Synonym Symbols	CFC4; MEK2; MKK2; MAPKK2; PRKMK2
UniProt Protein Name	Dual specificity mitogen-activated protein kinase kinase 2
UniProt Synonym Protein Names	ERK activator kinase 2; MAPK/ERK kinase 2; MEK 2
Protein Family	Dual specificity mitogen-activated protein kinase kinase
UniProt Gene Name	MAP2K2
UniProt Synonym Gene Names	MEK2; MKK2; PRKMK2; MAP kinase kinase 2; MAPKK 2; MEK 2
UniProt Entry Name	MP2K2_HUMAN
NCBI Protein Information	dual specificity mitogen-activated protein kinase kinase 2
NCBI Summary for MAP2K2	The protein encoded by this gene is a dual specificity protein kinase that belongs to the MAP kinase kinase family. This kinase is known to play a critical role in mitogen growth factor signal transduction. It phosphorylates and thus activates MAPK1/ERK2 and MAPK2/ERK3. The activation of this kinase itself is dependent on the Ser/Thr phosphorylation by MAP kinase kinase kinases. Mutations in this gene cause cardiofaciocutaneous syndrome (CFC syndrome), a disease characterized by heart defects, mental retardation, and distinctive facial features similar to those found in Noonan syndrome. The inhibition or degradation of this kinase is also found to be involved in the pathogenesis of Yersinia and anthrax. A pseudogene, which is located on chromosome 7, has been identified for this gene. [provided by RefSeq, Jul 2008]

UniProt Comments for MAP2K2	MEK2: a dual-specificity protein kinase of the STE7 kinase family. Phosphorylated and activated by Raf and Mos kinases. Phosphorylates a Thr and a Tyr residue in a Thr-Glu-Tyr sequence located in the activation loop of ERK2 and ERK3. A component of MAP kinase signal transduction pathways involved in mitogen growth factor signal transduction. Protein type: Protein kinase, STE; Kinase, protein; Protein kinase, dual-specificity (non-receptor); EC 2.7.12.2; STE group; STE7 family Chromosomal Location of Human Ortholog: 19p13.3 Cellular Component: peroxisomal membrane; Golgi apparatus; microtubule; internal side of plasma membrane; focal adhesion; mitochondrion; endoplasmic reticulum; early endosome; extracellular region; intercellular junction; cell cortex; cytosol; perinuclear region of cytoplasm; late endosome; cytoplasm; nucleus Molecular Function: MAP kinase kinase activity; protein serine/threonine kinase activator activity; protein serine/threonine kinase activity; protein binding; protein-tyrosine kinase activity; protein serine/threonine/tyrosine kinase activity; protein complex scaffold; ATP binding; PDZ domain binding Biological Process: axon guidance; peptidyl-tyrosine phosphorylation; nerve growth factor receptor signaling pathway; activation of MAPKK activity; activation of MAPK activity; stress-activated MAPK cascade; pathogenesis; toll-like receptor 3 signaling pathway; toll-like receptor 10 signaling pathway; toll-like receptor 5 signaling pathway; small GTPase mediated signal transduction; toll-like receptor 4 signaling pathway; epidermal growth factor receptor signaling pathway; fibroblast growth factor receptor signaling pathway; MyD88-independent toll-like receptor signaling pathway; MAPKKK cascade; toll-like receptor 2 signaling pathway; MyD88-dependent toll-like receptor signaling pathway; regulation of stress-activated MAPK cascade; Ras protein signal transduction; toll-like receptor signaling pathway; insulin receptor signaling pathway; innate immune response; toll-like receptor 9 signaling pathway; vascular endothelial growth factor receptor signaling pathway Disease: Cardiofaciocutaneous Syndrome 4
Research Articles on MAP2K2	**1.** CCR7 can also promote survival of mDCs through a novel MEK1/2-ERK1/2-AMPK signaling axis.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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