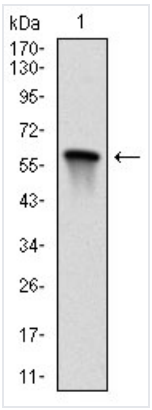
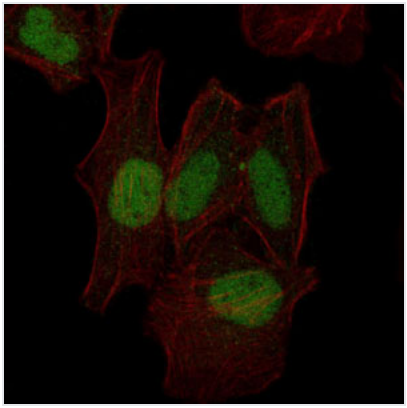
MAP2K7 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

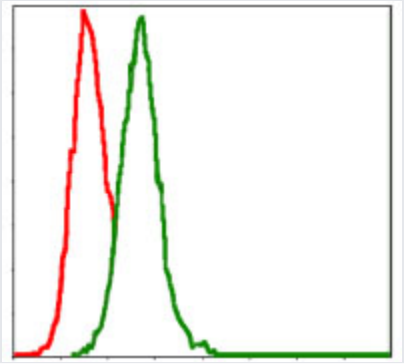
Product Name	MAP2K7, Monoclonal Antibody
Full Product Name	Anti-MAP2K7 Mouse mAb
Product Gene Name	anti-MAP2K7 antibody
Product Synonym Gene Name	MKK7; Jnkk2; MAPKK7; PRKMK7
Product Synonym Names	MKK7; Jnkk2; MAPKK7; PRKMK7
Clonality	Monoclonal
Isotype	IgG1
Clone Number	4E5
Host	Mouse
Species Reactivity	Human
Form/Format	Ascitic fluid containing 0.03% sodium azide.
Molecular Weight	48
OMIM	AF014401 mRNA
Immunogen	Purified recombinant fragment of human MAP2K7 expressed in E Coli.
Applications Tested/Suitable for anti-MAP2K7 antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Flow Cytometry (FC/FACS)
Related Product Information for anti-MAP2K7 antibody	Entrez Summary: The protein encoded by this gene is a dual specificity protein kinase that belongs to the MAP kinase kinase family. This kinase specifically activates MAPK8/JNK1 and MAPK9/JNK2, and this kinase itself is phosphorylated and activated by MAP kinase kinase kinases including MAP3K1/MEKK1, MAP3K2/MEKK2, MAP3K3/MEKK5, and MAP4K2/GCK. This kinase is involved in the signal transduction mediating the cell responses to proinflammatory cytokines, and environmental stresses. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found, but only one transcript variant has been supported and defined.
Other Notes	Small volumes of anti-MAP2K7 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 MAP2K7 purchase	MBS476234 is an antibody targeting MAP2K7. Also known as Anti-MAP2K7 Mouse mAb. Reactive in Human. Host: Mouse.



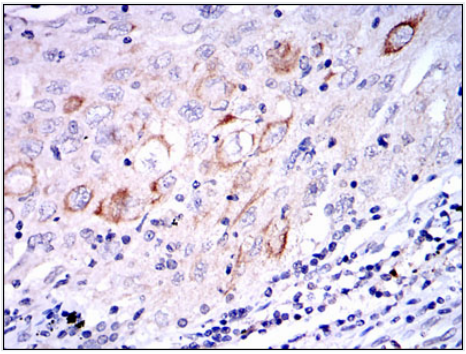
Western Blot (WB) of anti-MAP2K7 antibody
Western blot analysis using MAP2K7 mAb against human MAP2K7 (AA



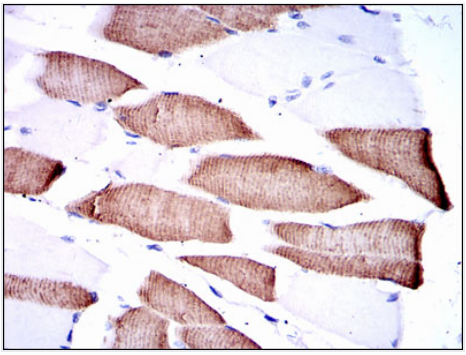
Immunofluorescence (IF) of anti-MAP2K7 antibody
Immunofluorescence analysis of Hela cells using MAP2K7 mouse mAb (green). Red



Flow Cytometry (FC/FACS) of anti-MAP2K7 antibody
Flow cytometric analysis of Hela cells using MAP2K7 mouse mAb (green) and negative control (red).



Immunohistochemistry (IHC) of anti-MAP2K7 antibody
Immunohistochemical analysis of paraffin-embedded lung cancer tissues using MAP2K7 mouse mAb with DAB staining.



Immunohistochemistry (IHC) of anti-MAP2K7 antibody
Immunohistochemical analysis of paraffin-embedded muscle tissues using MAP2K7 mouse mAb with DAB staining.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MAP2K7. It may not necessarily be applicable to this product.

NCBI GI #	23468315
NCBI GeneID	5609
NCBI Accession #	AAH38295.1
UniProt Secondary Accession #	O14648; O14816; O60452; O60453; Q1PG43; Q8IY10; B2R9S5; D6W659
UniProt Related Accession #	O14733
NCBI Official Full Name	MAP2K7 protein

NCBI Official Synonym Full Names	mitogen-activated protein kinase kinase 7
NCBI Official Symbol	MAP2K7
NCBI Official Synonym Symbols	MEK; MKK7; JNKK2; MEK 7; MAPKK7; PRKMK7; SAPKK4; SAPKK-4
UniProt Protein Name	Dual specificity mitogen-activated protein kinase kinase 7
UniProt Synonym Protein Names	JNK-activating kinase 2; MAPK/ERK kinase 7; MEK 7; Stress-activated protein kinase kinase 4; SAPK kinase 4; SAPKK-4; SAPKK4; c-Jun N-terminal kinase kinase 2; JNK kinase 2; JNKK 2
Protein Family	Dual specificity mitogen-activated protein kinase kinase
UniProt Gene Name	MAP2K7
UniProt Synonym Gene Names	JNKK2; MEK7; MKK7; PRKMK7; SKK4; MAP kinase kinase 7; MAPKK 7; MEK 7; SAPK kinase 4; SAPKK-4; SAPKK4; JNK kinase 2; JNKK 2
NCBI Protein Information	dual specificity mitogen-activated protein kinase kinase 7
NCBI Summary for MAP2K7	The protein encoded by this gene is a dual specificity protein kinase that belongs to the MAP kinase kinase family. This kinase specifically activates MAPK8/JNK1 and MAPK9/JNK2, and this kinase itself is phosphorylated and activated by MAP kinase kinase kinases including MAP3K1/MEKK1, MAP3K2/MEKK2,MAP3K3/MEKK5, and MAP4K2/GCK. This kinase is involved in the signal transduction mediating the cell responses to proinflammatory cytokines, and environmental stresses. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]
UniProt Comments for MAP2K7	MKK7: a dual-specificity protein kinase of the STE7 family. Activates JNK1 and -2 by phosphorylating a Thr and a Tyr residue in the activation loop. Is activated by proinflammatory cytokines and environmental stress. Three alternatively spliced isoforms have been reported. Protein type: EC 2.7.12.2; Kinase, protein; Protein kinase, STE; Protein kinase, dual-specificity (non-receptor); STE group; STE7 family Chromosomal Location of Human Ortholog: 19p13.2 Cellular Component: cytoplasm; cytosol; nucleus Molecular Function: enzyme binding; magnesium ion binding; MAP kinase kinase activity; protein binding; protein kinase binding; protein phosphatase binding; receptor signaling protein serine/threonine kinase activity Biological Process: activation of JNK activity; JNK cascade; positive regulation of telomerase activity; positive regulation of telomere maintenance via telomerase; response to heat; response to osmotic stress; response to UV; signal transduction; stress-activated MAPK cascade
Research Articles on MAP2K7	**1.** combined pan-RAF and MEK inhibition can overcome intrinsic and acquired resistance to single-agent RAF/MEK inhibition, supporting dual pan-RAF and MEK inhibition as a novel therapeutic strategy for BRAF- and KRAS-mutant cancers
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