MAP2K5 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	MAP2K5, Monoclonal Antibody
Full Product Name	Mouse Monoclonal Antibody to MAP2K5
Product Gene Name	anti-MAP2K5 antibody
Product Synonym Names	MEK5; MAPKK5; PRKMK5; HsT17454
Clonality	Monoclonal
Isotype	IgG1
Clone Number	5H11B10
Host	Mouse
Molecular Weight	50kDa
OMIM	602520
3D Structure	ModBase 3D Structure for Q13163
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-MAP2K5 antibody	Western Blot (WB), Immunohistochemistry (IHC), Flow Cytometry (FC/FACS)
Application Notes for anti-MAP2K5 antibody	Western blot using Recombinant protein Western blot using Transfection expressed protein Western blot using Cell lysate
Related Product Information for anti-MAP2K5 antibody	MBS8527971 is an antibody targeting MAP2K5. Also known as Mouse Monoclonal Antibody to MAP2K5. Host: Mouse.
Other Notes	Small volumes of anti-MAP2K5 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MAP2K5. It may not necessarily be applicable to this product.

NCBI GI #	49457452
NCBI GeneID	5607
NCBI Accession #	CAG47025.1
UniProt Primary Accession #	Q13163
UniProt Secondary Accession #	Q92961; Q92962; B4DE43
UniProt Related Accession #	Q13163
NCBI Official Full Name	MAP2K5, partial
NCBI Official Synonym Full Names	mitogen-activated protein kinase kinase 5
NCBI Official Symbol	MAP2K5

NCBI Official Synonym Symbols	MEK5; MAPKK5; PRKMK5; HsT17454
UniProt Protein Name	Dual specificity mitogen-activated protein kinase kinase 5
UniProt Synonym Protein Names	MAPK/ERK kinase 5; MEK 5
Protein Family	Dual specificity mitogen-activated protein kinase kinase
UniProt Gene Name	MAP2K5
UniProt Synonym Gene Names	MEK5; MKK5; PRKMK5; MAP kinase kinase 5; MAPKK 5; MEK 5
NCBI Protein Information	dual specificity mitogen-activated protein kinase kinase 5
NCBI Summary for MAP2K5	The protein encoded by this gene is a dual specificity protein kinase that belongs to the MAP kinase kinase family. This kinase specifically interacts with and activates MAPK7/ERK5. This kinase itself can be phosphorylated and activated by MAP3K3/MEKK3, as well as by atypical protein kinase C isoforms (aPKCs). The signal cascade mediated by this kinase is involved in growth factor stimulated cell proliferation and muscle cell differentiation. Three alternatively spliced transcript variants of this gene encoding distinct isoforms have been described. [provided by RefSeq, May 2011]
UniProt Comments for MAP2K5	Acts as a scaffold for the formation of a ternary MAP3K2/MAP3K3-MAP3K5-MAPK7 signaling complex. Activation of this pathway appears to play a critical role in protecting cells from stress-induced apoptosis, neuronal survival and cardiac development and angiogenesis.
Research Articles on MAP2K5	**1.** When yeast genetic interaction partners held in common between human OPTN and ANG were validated in mammalian cells and zebrafish, MAP2K5 kinase emerged as a potential drug target for amyotrophic lateral sclerosis therapy
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