PPM1G Antibody (N-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	PPM1G, Blocking Peptide
Full Product Name	PPM1G Antibody (N-term) Blocking Peptide
Product Gene Name	PPM1G blocking peptide
Product Synonym Gene Name	PPM1C
Product Synonym Names	Protein phosphatase 1G; Protein phosphatase 1C; Protein phosphatase 2C isoform gamma; PP2C-gamma; Protein phosphatase magnesium-dependent 1 gamma; PPM1G; PPM1C
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	PPM1G peptide (MBS9220750) is used for blocking the activity of PPM1G antibody (MBS9210938)
Molecular Weight	59,272 Da
OMIM	605119
Cellular Location	Cytoplasm.
Tissue Location	Widely expressed. Most abundant in testis, skeletal muscle, and heart
Related Product Information for PPM1G blocking peptide	MBS9220750 is a blocking peptide targeting PPM1G. Also known as PPM1G Antibody (N-term) Blocking Peptide.
Other Notes	Small volumes of PPM1G blocking peptide 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 PPM1G. It may not necessarily be applicable to this product.

NCBI GI #	3122589
NCBI GeneID	5496
NCBI Accession #	O15355.1
UniProt Primary Accession #	O15355
UniProt Related Accession #	O15355
NCBI Official Full Name	Protein phosphatase 1G
NCBI Official Synonym Full Names	protein phosphatase, Mg2+/Mn2+ dependent 1G
NCBI Official Symbol	PPM1G
NCBI Official Synonym Symbols	PP2CG; PPP2CG; PP2CGAMMA
UniProt Protein Name	Protein phosphatase 1G
UniProt Synonym Protein Names	Protein phosphatase 1C; Protein phosphatase 2C isoform gamma; PP2C-gamma; Protein phosphatase magnesium-dependent 1 gamma

Protein Family	Protein phosphatase
UniProt Gene Name	PPM1G
UniProt Synonym Gene Names	PPM1C; PP2C-gamma
UniProt Entry Name	PPM1G_HUMAN
NCBI Protein Information	protein phosphatase 1G
NCBI Summary for PPM1G	The protein encoded by this gene is a member of the PP2C family of Ser/Thr protein phosphatases. PP2C family members are known to be negative regulators of cell stress response pathways. This phosphatase is found to be responsible for the dephosphorylation of Pre-mRNA splicing factors, which is important for the formation of functional spliceosome. Studies of a similar gene in mice suggested a role of this phosphatase in regulating cell cycle progression. [provided by RefSeq, Apr 2010]
UniProt Comments for PPM1G	PPM1G: is a member of the PP2C family of Ser/Thr protein phosphatases. PP2C family members are known to be negative regulators of cell stress response pathways. This phosphatase is found to be responsible for the dephosphorylation of Pre-mRNA splicing factors, which is important for the formation of functional spliceosome. Studies of a similar gene in mice suggested a role of this phosphatase in regulating cell cycle progression. [provided by RefSeq, Apr 2010] Protein type: Protein phosphatase, Ser/Thr (non-receptor); Spliceosome; EC 3.1.3.16; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 2p23.3 Cellular Component: nucleoplasm; nucleus Molecular Function: protein binding; protein serine/threonine phosphatase activity Biological Process: protein amino acid dephosphorylation
Research Articles on PPM1G	**1.** PPM1G phosphatase directly binds 7SK RNA and the kinase inhibitor Hexim1 once P-TEFb has been released from the 7SK snRNP.
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