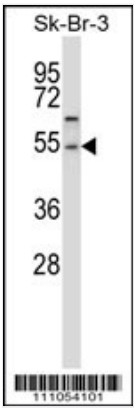
PPM1A Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PPM1A, Polyclonal Antibody
Full Product Name	PPM1A Antibody
Product Gene Name	anti-PPM1A antibody
Product Synonym Names	Protein phosphatase 1A; Protein phosphatase 2C isoform alpha; PP2C-alpha; Protein phosphatase IA; PPM1A; PPPM1A
Clonality	Polyclonal
Isotype	Rabbit Ig
Host	Rabbit
Species Reactivity	Human (Predicted Reactivity: Bovine, Rabbit)
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: 0.27 (lot specific)
Specificity	This PPM1A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 355-382 amino acids from human PPM1A.
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	PPM1A peptide (MBS9220667) is used for blocking the activity of PPM1A antibody (MBS9212709)
Molecular Weight	42448
Immunogen Sequence Positions	355-382
OMIM	606108
3D Structure	ModBase 3D Structure for P35813
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Product Categories/Family for anti-PPM1A antibody	Signal Transduction
Applications Tested/Suitable for anti-PPM1A antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-PPM1A antibody	WB~~1:1000

Related Product Information for anti-PPM1A antibody	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 dephosphorylates, and negatively regulates the activities of, MAP kinases and MAP kinase kinases. It has been shown to inhibit the activation of p38 and JNK kinase cascades induced by environmental stresses. This phosphatase can also dephosphorylate cyclin-dependent kinases, and thus may be involved in cell cycle control. Overexpression of this phosphatase is reported to activate the expression of the tumor suppressor gene TP53/p53, which leads to G2/M cell cycle arrest and apoptosis. Three alternatively spliced transcript variants encoding distinct isoforms have been described.
Product References and Citations for anti-PPM1A antibody	Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) : Zhang, B., et al. Histochem. Cell Biol. 132(2):169-179(2009) Sun, W., et al. Cell. Signal. 21(1):95-102(2009) Wang, Y., et al. J. Biol. Chem. 283(48):33578-33584(2008) Bu, S., et al. J. Biol. Chem. 283(28):19593-19602(2008)
Other Notes	Small volumes of anti-PPM1A 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 PPM1A purchase	MBS9212709 is an antibody targeting PPM1A. Also known as PPM1A Antibody. Reactive in Human (Predicted Reactivity: Bovine, Rabbit). Host: Rabbit.



Western Blot (WB) of anti-PPM1A antibody
PPM1A Antibody (pS) western blot analysis in SK-BR-3 cell line lysates (35ug/lane).This demonstrates the PPM1A antibody detected the PPM1A protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PPM1A. It may not necessarily be applicable to this product.

NCBI GI #	10337595
NCBI GeneID	5494
NCBI Accession #	NP_066283.1
NCBI Related Accession #	NP_808820.1; NP_808821.2
UniProt Primary Accession #	P35813
UniProt Secondary Accession #	O75551; B5BU11; J3KNM0
UniProt Related Accession #	P35813
GenBank Nucleotide #	NM_021003.4
NCBI Official Full Name	protein phosphatase 1A isoform 1

NCBI Official Synonym Full Names	protein phosphatase, Mg2+/Mn2+ dependent, 1A
NCBI Official Symbol	PPM1A
NCBI Official Synonym Symbols	PP2CA; PP2Calpha; PP2C-ALPHA
UniProt Protein Name	Protein phosphatase 1A
UniProt Synonym Protein Names	Protein phosphatase 2C isoform alpha; PP2C-alpha; Protein phosphatase IA
Protein Family	Protein phosphatase
UniProt Gene Name	PPM1A
UniProt Synonym Gene Names	PPPM1A; PP2C-alpha
UniProt Entry Name	PPM1A_HUMAN
NCBI Protein Information	protein phosphatase 1A
NCBI Summary for PPM1A	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 dephosphorylates, and negatively regulates the activities of, MAP kinases and MAP kinase kinases. It has been shown to inhibit the activation of p38 and JNK kinase cascades induced by environmental stresses. This phosphatase can also dephosphorylate cyclin-dependent kinases, and thus may be involved in cell cycle control. Overexpression of this phosphatase is reported to activate the expression of the tumor suppressor gene TP53/p53, which leads to G2/M cell cycle arrest and apoptosis. Three alternatively spliced transcript variants encoding distinct isoforms have been described. [provided by RefSeq, Jul 2008]
UniProt Comments for PPM1A	PPPM1A: a Ser/Thr protein phosphatase of the PP2C family. Inhibits the activation of p38 and JNK kinase cascades induced by environmental stresses. Can also dephosphorylate cyclin-dependent kinases and may play a role in cell cycle control. Overexpression of this phosphatase activates the expression of p53, leading to G2/M cell cycle arrest and apoptosis. Protein type: Motility/polarity/chemotaxis; EC 3.1.3.16; Protein phosphatase, Ser/Thr (non-receptor) Chromosomal Location of Human Ortholog: 14q23.1 Cellular Component: nucleoplasm; neuron projection; membrane; voltage-gated calcium channel complex; nucleus; cytosol Molecular Function: protein C-terminus binding; protein binding; signal transducer activity; calmodulin-dependent protein phosphatase activity; manganese ion binding; magnesium ion binding; protein serine/threonine phosphatase activity Biological Process: transcription initiation from RNA polymerase II promoter; N-terminal protein myristoylation; positive regulation of I-kappaB kinase/NF-kappaB cascade; Wnt receptor signaling pathway; transcription, DNA-dependent; positive regulation of transcription, DNA-dependent; negative regulation of NF-kappaB import into nucleus; negative regulation of I-kappaB kinase/NF-kappaB cascade; negative regulation of transcription from RNA polymerase II promoter; protein amino acid dephosphorylation; dephosphorylation; transforming growth factor beta receptor signaling pathway; insulin receptor signaling pathway; gene expression; cell cycle arrest; negative regulation of transforming growth factor beta receptor signaling pathway; positive regulation of Wnt receptor signaling pathway
Research Articles on PPM1A	**1.** Loss of PPM1A is associated with the development of tumor invasion in bladder cancer patients.
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