PPM1D Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PPM1D, Polyclonal Antibody
Full Product Name	PPM1D Antibody
Product Gene Name	anti-PPM1D antibody
Product Synonym Names	EC 3.1.3.16; p53 induced protein phosphatase 1; p53-induced protein phosphatase 1; PP2C delta; PP2C-delta; PP2CD; Ppm1d; PPM1D_HUMAN; Protein phosphatase 1D; protein phosphatase 1D magnesium-dependent delta isoform; Protein phosphatase 2C delta isoform; Protein phosphatase 2C isoform delta; Protein phosphatase magnesium dependent 1 delta; Protein phosphatase magnesium-dependent 1 delta; Protein phosphatase Mg2+/Mn2+ dependent 1D; Protein phosphatase Wip1; Wild type p53 induced phosphatase 1; WIP 1; WIP1
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Concentration	1mg/ml (lot specific)
Specificity	PPM1D Antibody detects endogenous levels of total PPM1D.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.
Antibody/Peptide Pairs	PPM1D peptide (MBS9631455) is used for blocking the activity of PPM1D antibody (MBS9629072)
Molecular Weight	47,211 Da
OMIM	605100
3D Structure	ModBase 3D Structure for O15297
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Immunogen	A synthesized peptide derived from Human MYOCD.
Conjugation	Unconjugated
Similarity	Belongs to the PP2C family.
Subunit Structure	Interacts with CHEK1 and CHEK2; dephosphorylates them. Interacts with MAPK14.
Tissue Specificity	Expressed in fetal and adult brain. Also detected in fetal liver and skeletal muscle, but not in their adult counterparts.
Function	Involved in the negative regulation of p53 expression. Required for the relief of p53-dependent checkpoint mediated cell cycle arrest. Binds to and dephosphorylates 'Ser-15' of TP53 and 'Ser-345' of CHEK1 which contributes to the functional inactivation of these proteins. Mediates MAPK14 dephosphorylation and inactivation. Is also an important regulator of global heterochromatin silencing and critical in maintaining genome integrity (By similarity).
Product Categories/Family for anti-PPM1D antibody	Nucleus; Cytoplasm; Cytosol; Primary
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.

Applications Tested/Suitable for anti-PPM1D antibody	ELISA (EIA)(peptide)
Application Notes for anti-PPM1D antibody	ELISA(peptide): 1:20000-1:40000
Related Product Information for anti-PPM1D antibody	MBS9629072 is an antibody targeting PPM1D. Also known as PPM1D Antibody. Reactive in Human, Mouse. Host: Rabbit.
Other Notes	Small volumes of anti-PPM1D 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 PPM1D. It may not necessarily be applicable to this product.

NCBI GI #	4505997
NCBI GeneID	8493
NCBI Accession #	NP_003611.1
UniProt Primary Accession #	O15297
UniProt Secondary Accession #	Q53XP4; Q6P991; Q8IVR6
UniProt Related Accession #	O15297
GenBank Nucleotide #	NM_003620.3
NCBI Official Full Name	protein phosphatase 1D
NCBI Official Synonym Full Names	protein phosphatase, Mg2+/Mn2+ dependent, 1D
NCBI Official Symbol	PPM1D
NCBI Official Synonym Symbols	WIP1; PP2C-DELTA
UniProt Protein Name	Protein phosphatase 1D
UniProt Synonym Protein Names	Protein phosphatase 2C isoform delta; PP2C-delta; Protein phosphatase magnesium-dependent 1 delta; p53-induced protein phosphatase 1
Protein Family	Protein phosphatase
UniProt Gene Name	PPM1D
UniProt Synonym Gene Names	WIP1; PP2C-delta
UniProt Entry Name	PPM1D_HUMAN
NCBI Protein Information	protein phosphatase 1D
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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