Recombinant Full Length Human PPM1D Protein, C-Flag-tagged

Cat. No. PPM1D-324HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human PPM1D Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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. The expression of this gene is induced in a p53-dependent manner in response to various environmental stresses. While being induced by tumor suppressor protein TP53/p53, this phosphatase negatively regulates the activity of p38 MAP kinase, MAPK/p38, through which it reduces the phosphorylation of p53, and in turn suppresses p53-mediated transcription and apoptosis. This phosphatase thus mediates a feedback regulation of p38-p53 signaling that contributes to growth inhibition and the suppression of stress induced apoptosis. This gene is located in a chromosomal region known to be amplified in breast cancer. The amplification of this gene has been detected in both breast cancer cell line and primary breast tumors, which suggests a role of this gene in cancer development.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.

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Molecular Mass	66.5 kDa
AA Sequence	MAGLYSLGVSVFSDQGGRKYMEDVTQIVVEPEPTAEEKPSPRRSLSQPLPPRPSPA ALPGGEVSGKGPAV AAREARDPLPDAGASPAPSRCCRRRSSVAFFAVCDGHGGR EAAQFAREHLWGFIKKQKGFTSSEPAKVCA AIRKGFLACHLAMWKKLAEWPKTMT GLPSTSGTTASVVIIRGMKMYVAHVGDSGVVLGIQDDPKDDFVRA VEVTQDHKPEL PKERERIEGLGGSVMNKSGVNRVVWKRPRLTHNGPVRRSTVIDQIPFLAVARALGD LWS YDFFSGEFVVSPEPDTSVHTLDPQKHKYIILGSDGLWNMIPPQDAISMCQDQE EKKYLMGEHGQSCAKML VNRALGRWRQRMLRADNTSAIVICISPEVDNQGNFTNE DELYLNLTDSPSYNSQETCVMTPSPCSTPPVK SLEEDPWPRVNSKDHIPALVRSNA FSENFLEVSAEIARENVQGVVIPSKDPEPLEENCAKALTLRIHDSL NNSLPIGLVPTN STNTVMDQKNLKMSTPGQMKAQEIERTPPTNFKRTLEESNSGPLMKKHRRNGLSR SSG AQPASLPTTSQRKNSVKLTMRRRLRGQKKIGNPLLHQHRKTVCVCTRTRPLEQKLIS EEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Phosphatase

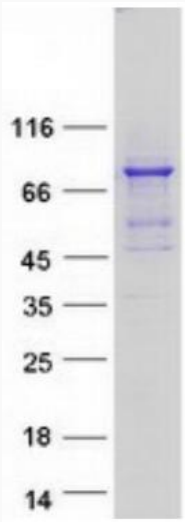
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Protein Pathways	p53 signaling pathway
Full Length	Full L.

GENE INFORMATION

Gene Name	PPM1D protein phosphatase, Mg2+/Mn2+ dependent 1D [Homo sapiens (human)]
Official Symbol	PPM1D
Synonyms	JDVS; WIP1; IDDGIP; PP2C-DELTA
Gene ID	8493
mRNA Refseq	NM_003620.4
Protein Refseq	NP_003611.1
MIM	605100
UniProt ID	O15297

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Coomassie blue staining of purified PPM1D protein.

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