

Product datasheet for PH309328

PPM1D (NM_003620) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PPM1D MS Standard C13 and N15-labeled recombinant protein (NP_003611)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC209328
Predicted MW:	66.5 kDa
Protein Sequence:	>RC209328 representing NM_003620 Red=Cloning site Green=Tags(s)

MAGLYSLGVSFSDQGGRKYMEDVTQIVVEPEPTAEEKPSRRSLSQPLPPRPSAALPGGEVSGKGPAAAREARDPLPDAGASPAPSRCCRRRSSVAFFAVCDGHGGREAAQFAREHLWGFIKKQKGFTSSEPAKVCAAIRKGF LACHLAMWKKLAEWPKMTGLPSTSGTTASVVIIRGMKMYVAHVGD SGVVLGIQDDPKDDFVRAVEVTQDHKPELPKERERIEGLGGSVMNKSGVNRVVWKRPLTHNGPVRRSTVIDQIPFLAVARALGDLWSYDFSGEFVVSPEPDTSVHTLDPQKHKYIILGSDGLWNMIPPQDAISMCQDQEEKKYLMGEHQSCAKMLVNRALGRWRQRLRADNTSAIVICISPEVDNQGNTNEDELYLNLTDSPSYNSQETCVMTSPCSTPPVKSL EEDPWPRVNSKDHIPALVRSNAFSENFLEVSAEIARENVQGVVIPS KDPEPLEENCAKALTRLIHDSL NNSLPIGLVPTNSTNTVMDQKNLKMSTPGQMQAEIERTPTNFKRTLEESNSGPLMKKHRRNGLSRSSG AQPASLPTTSQRKNSVKLTMRRLRGQKKIGNPL LHQRKTVVCV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_003611
RefSeq Size:	3163
RefSeq ORF:	1815



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Synonyms: IDDGIP; JDVS; PP2C-DELTA; WIP1

Locus ID: 8493

UniProt ID: [O15297](#), [A0A0S2Z4M2](#)

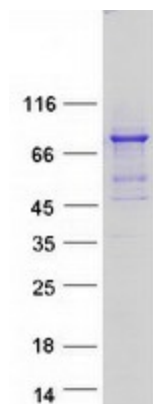
Cytogenetics: 17q23.2

Summary: 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. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome, Phosphatase

Protein Pathways: p53 signaling pathway

Product images:



Coomassie blue staining of purified PPM1D protein (Cat# [TP309328]). The protein was produced from HEK293T cells transfected with PPM1D cDNA clone (Cat# [RC209328]) using MegaTran 2.0 (Cat# [TT210002]).