

Product datasheet for TP309328

PPM1D (NM_003620) Human Recombinant Protein

Product data:

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|---------------------------------------|---|
| Product Type: | Recombinant Proteins |
| Description: | Purified recombinant protein of Homo sapiens protein phosphatase 1D magnesium-dependent, delta isoform (PPM1D), 20 µg |
| Species: | Human |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >RC209328 representing NM_003620 Red =Cloning site Green =Tags(s) |

MAGLYSLGVSVFSDQGGRKYMEDVTQIVVEPEPTAEKPSRRSLSQPLPPRPSAALPGGEVSGKGPV
AAREARDPLPDAGASPAPSRCCRRRSSVAFFAVCDGHGGREAAQFAREHLWGFIKKQKGFTSSEPAKVCA
AIRKGF LACHLAMWKKLAEWPKMTGLPSTSGTTASVVIIRGMKMYVAHVGD SGVVLGIQDDPKDDFVR
A
VEVTQDHKPELPKERERIEGLGGSVMNKSGVNRVWKRPRLTHNGPVRSTVIDQIPFLAVARALGDLWS
YDFFSGEFVVSPEPDTSVHTLDPQKHKYIILGSDGLWNMIPPQDAISMCDQEEKKYLMGEHGQSCAKM
L
VNRALGRWRQRMLRADNTSAIVICISPEVDNQG NFTNEDELYLNLTDS PSYNSQETCVMTSPCSTPPVK
SLEEDPWPRVNSKDHIPALVRSNAFSEN FLEVSAEIAREN VQGWIPSKDPEPLEENCAKALTLRIHDSL
NNSLPIGLVPTNSTNTVMDQKNLKMSTPGQMKAEIERTPPTNFKRTLEESNSGPLMKKHRRNGLSRSS
G
AQPASLP TTSQRKNSVKLTMRRLRGQKKIGNPLLHQHRKTVVCV

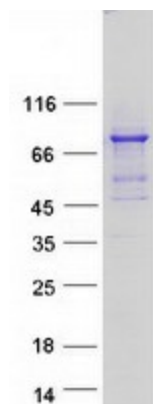
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

| | |
|----------------|--|
| Tag: | C-Myc/DDK |
| Predicted MW: | 66.5 kDa |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol |
| Preparation: | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |



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| Note: | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| Storage: | Store at -80°C. |
| Stability: | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| RefSeq: | NP_003611 |
| Locus ID: | 8493 |
| UniProt ID: | O15297 |
| RefSeq Size: | 3163 |
| Cytogenetics: | 17q23.2 |
| RefSeq ORF: | 1815 |
| Synonyms: | IDDGIP; JDVS; PP2C-DELTA; WIP1 |
| Summary: | <p>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]</p> |
| 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]).