

Datasheet for ABIN7550974

PPM1D Protein (AA 1-605) (His tag)



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Overview

Quantity:	1 mg
Target:	PPM1D
Protein Characteristics:	AA 1-605
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PPM1D protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat PPM1D Protein expressed in mammalian cells.
Sequence:	<p>MAGLYSLGVS VFSDQGGRKY MEDVTQIVVE PEPTAEEKPS PRRSLSQLPL PRPSAALPG</p> <p>GEVSGKGPAV AAREARDPLP DAGASPAPSR CCRRRSSVAF FAVCDGHGGR EAAQFAREHL</p> <p>WGFKKQKGF TSSEPAKVCA AIRKGFLACH LAMWKLAEW PKTMTGLPST SGTTASVII</p> <p>RGMKMYVAHV GDSGVVLGIQ DDPKDDFVRA VEVTDQHKPE LPKERERIEG LGGSVMNKS</p> <p>VNRVWKRPR LTHNGPVRRS TVIDQIPFLA VARALGDLWS YDFFSGEFVV SPEPDTSVHT</p> <p>LDPQKHKYII LGS DGLWNMI PPQDAISMCQ DQEEKKYLME EHGQSCAKML VNRALGRWRQ</p> <p>RMLRADNTSA IVICISPEVD NQGNFTNEDE LYLNLTDSPTS YNSQETCVMT PSCSTPPVK</p> <p>SLEEDPWPRV NSKDHPALV RSNAFSENFL EVSAEIAREN VQGVVPSKD PEPLEENCAK</p> <p>ALTLRIHDSL NNSLPIGLVP TNSTNTVMDQ KNLKMSTPGQ MKAQEIERTP PTNFKRTLEE</p> <p>SNSGPLMKKH RRNGLSRSSG AQPASLPTTS QRKNSVKLTM RRRLRGQKKI GNPLLHQHRK</p> <p>TVCVC Sequence without tag. The proposed Purification-Tag is based on experiences with</p>

the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none">• Made to order protein - from design to production - by highly experienced protein experts.• Protein expressed in mammalian cells and purified in one-step affinity chromatography• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.• State-of-the-art algorithm used for plasmid design (Gene synthesis). <p>This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.</p>
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	PPM1D
Alternative Name:	PPM1D (PPM1D Products)
Background:	<p>Protein phosphatase 1D (EC 3.1.3.16) (Protein phosphatase 2C isoform delta) (PP2C-delta) (Protein phosphatase magnesium-dependent 1 delta) (p53-induced protein phosphatase 1),FUNCTION: Involved in the negative regulation of p53 expression (PubMed:23242139). 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 (PubMed:15870257, PubMed:16311512). Mediates MAPK14 dephosphorylation and inactivation (PubMed:21283629). Is also an important regulator of global heterochromatin silencing and critical in maintaining genome integrity (By similarity). {ECO:0000250 UniProtKB:Q9QZ67, ECO:0000269 PubMed:15870257, ECO:0000269 PubMed:16311512, ECO:0000269 PubMed:21283629, ECO:0000269 PubMed:23242139}.</p>

Target Details

Molecular Weight:	66.7 kDa
UniProt:	O15297
Pathways:	p53 Signaling , Cell Division Cycle

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months