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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
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- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Datasheet

PPM1D (Human) Recombinant Protein (P01)

Catalog Number: H00008493-P01

Regulation Status: For research use only (RUO)

Product Description: Human PPM1D full-length ORF (NP_003611.1, 1 a.a. - 605 a.a.) recombinant protein with GST tag at N-terminal.

Sequence:

MAGLYSLGVSVFSDQGGRKYMEDVTQIVVEPEPTAEE
KPSRRSLSQPLPPRPSAALPGGEVSGKGPAAVARE
ARDPLPDAGASPAPSRCCRRRSSVAFFAVCDGHGGR
EAAQFAREHLWGFQKQKGFSTSEPAKVCIAIRKGF
CHLAMWKKLAEWPKTMTGLPSTSGTTASVVIIRGMKM
YVAHVGDGSGVVLGIQDDPKDDFVRAVEVTQDHKPELP
KERERIEGLGGSVMNKSQVNRVWKRPRLTHNGPVR
RSTVIDQIPFLAVARALGDLWSYDFFSGEFVVSPEPDT
SVHTLDPQKHKYIILGSDGLWNMIPPQDAISMCDQEE
KKYLMGEHGQSCAKMLVNRALGRWRQMLRADNTS
AIVICISPEVDNQGNFTNEDELYLNLTDSPSYNSQETCV
MTPSPCSTPPVKSLEEDPWPRVNSKDHPALVRSNAF
SENFLEVSIAEIARENVQGVVPSKDPPELEENCAKALT
LRIHDSLNNLSPIGLVPTNSTNTVMDQKNLKMSTPGQ
MKAQEIERTPPTNFKRTEESNSGPLMKKRRNGLSR
SSGAQPASLPTTSQRKNSVKLTMRRRLRGQKKIGNPL
LHQHRKTVCCV

Host: Wheat Germ (in vitro)

Theoretical MW (kDa): 93.1

Interspecies Antigen Sequence: Mouse (87); Rat (89)

Applications: AP, Array, ELISA, WB-Re
(See our web site product page for detailed applications information)

Protocols: See our web site at
<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

Preparation Method: [in vitro wheat germ expression system](#)

Purification: Glutathione Sepharose 4 Fast Flow

Storage Buffer: 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction: Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 8493

Gene Symbol: PPM1D

Gene Alias: PP2C-DELTA, WIP1

Gene 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]

References:

1. p21 WAF1/CIP1 promotes p53 protein degradation by facilitating p53-Wip1 and p53-Mdm2 interaction. Jihyun Lee, Jongdoo Kim, Eun Mi Kim, Ukjin Kim, A-Ram Kang, Jong Kuk Park, Hong-Duck Um. *Biochem Biophys Res Commun.* 2021 Mar 5;543:23-28. doi: 10.1016/j.bbrc.2021.01.074. Epub 2021 Jan 24.
2. Wip1 controls the translocation of the chromosomal passenger complex to the central spindle for faithful mitotic exit. Xianghua Zhang, Ji Eun Park, Eun Ho Kim, Jihee Hong, Ki-Tae Hwang, Young A Kim, Chang-Young Jang. *Cell Mol Life Sci.* 2021 Mar;78(6):2821-2838. doi: 10.1007/s00018-020-03665-x. Epub 2020 Oct 16.