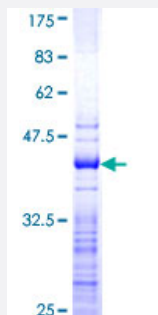


PPM1D (Human) Recombinant Protein (Q01)

Catalog # H00008493-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human PPM1D partial ORF (NP_003611, 496 a.a. - 605 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	IGLVPTNSTNTVMDQKNLKMSTPGQMKAQEIERTPPTNFKRTLEESNSGPLMKKHRRNGLSRSSG AQPASLPPTSQRKNSVKLTMRRLRGQKKIGNPLLHQRKTVCVC
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	37.84
Interspecies Antigen Sequence	Mouse (88); Rat (88)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
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.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — PPM1D

Entrez GeneID [8493](#)

GeneBank Accession# [NM_003620](#)

Protein Accession# [NP_003611](#)

Gene Name PPM1D

Gene Alias PP2C-DELTA, WIP1

Gene Description protein phosphatase 1D magnesium-dependent, delta isoform

Omim ID [114480 605100](#)

Gene Ontology [Hyperlink](#)

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]

Other Designations p53-induced protein phosphatase 1|protein phosphatase 1D|protein phosphatase 2C delta isoform|protein phosphatase Wip1

Pathway

- [p53 signaling pathway](#)

Disease

- [Tobacco Use Disorder](#)