

PPM1D 抗原（重组蛋白）

中文名称：PPM1D 抗原（重组蛋白）

英文名称：PPM1D Antigen (Recombinant Protein)

别名：protein phosphatase, Mg²⁺/Mn²⁺ dependent 1D; WIP1; PP2C-DELTA

储存：冷冻（-20℃）

相关类别：抗原

概述：

Fusion protein corresponding to a region derived from 459-605 amino acids of human PPM1D

技术规格：

Full name:	protein phosphatase, Mg ²⁺ /Mn ²⁺ dependent 1D
Synonyms:	WIP1; PP2C-DELTA
Swissprot:	O15297
Gene Accession:	BC033893
Purity:	>85%, as determined by Coomassie blue stained SDS-PAGE
Expression system:	Escherichia coli
Tags:	His tag C-Terminus, GST tag N-Terminus
Background:	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 p3

8-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.