

Recombinant Human PPM1D

Catalog No: #GP10877



Package Size: #GP10877-1 100ug

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Description

Product Name	Recombinant Human PPM1D
Brief Description	Recombinant Protein
Immunogen Description	Fusion protein corresponding to a region derived from 459-605 amino acids of human PPM1D
Target Name	protein phosphatase, Mg ²⁺ /Mn ²⁺ dependent 1D
Other Names	WIP1; PP2C-DELTA
Accession No.	Swissprot:O15297Gene Accession:BC033893
Uniprot	O15297
GeneID	8493;
Storage	-20~-80°C, pH 7.6 PBS

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 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.?

References

Note: For in vitro research use only, not for diagnostic or therapeutic use. This product is not a medical device.

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