



Datasheet for ABIN392853  
**anti-PPM1D antibody (C-Term)**



[Go to Product page](#)

1 Image

8 Publications

### Overview

Quantity:	400 µL
Target:	PPM1D
Binding Specificity:	AA 571-602, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PPM1D antibody is un-conjugated
Application:	Western Blotting (WB)

### Product Details

Immunogen:	This PPM1D antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 571-602 amino acids from the C-terminal region of human PPM1D.
Clone:	RB6018
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

### Target Details

Target:	PPM1D
Alternative Name:	PPM1D ( <a href="#">PPM1D Products</a> )

## Target Details

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**Background:** PPM1D 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. Expression of this PPM1D 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. The PPM1D 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.

**Molecular Weight:** 66675

**NCBI Accession:** [NP\\_003611](#)

**UniProt:** [O15297](#)

**Pathways:** [p53 Signaling](#), [Cell Division Cycle](#)

## Application Details

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**Application Notes:** WB: 1:1000

**Restrictions:** For Research Use only

## Handling

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**Format:** Liquid

**Buffer:** Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

**Preservative:** Sodium azide

**Precaution of Use:** This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

**Storage:** 4 °C,-20 °C

**Storage Comment:** Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C.

**Expiry Date:** 6 months

## Publications

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Product cited in: Park, Song, Kim, Han, Seol, Jang, Choi: "p53-Independent expression of wild-type p53-induced phosphatase 1 (Wip1) in methylmethane sulfonate-treated cancer cell lines and human tumors." in: **The international journal of biochemistry & cell biology**, Vol. 44, Issue 6, pp. 896-904, (2012) ([PubMed](#)).

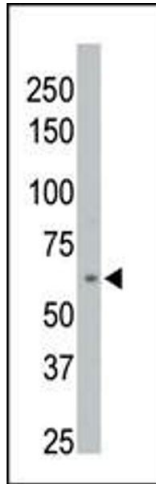
Song, Han, Sabapathy, Lee, Yu, Choi: "Expression of a homeostatic regulator, Wip1 (wild-type p53-induced phosphatase), is temporally induced by c-Jun and p53 in response to UV irradiation." in: **The Journal of biological chemistry**, Vol. 285, Issue 12, pp. 9067-76, (2010) ([PubMed](#)).

Moon, Lin, Zhang, Nguyen, Darlington, Waldman, Lu, Donehower: "Wild-type p53-induced phosphatase 1 dephosphorylates histone variant gamma-H2AX and suppresses DNA double strand break repair." in: **The Journal of biological chemistry**, Vol. 285, Issue 17, pp. 12935-47, (2010) ([PubMed](#)).

Zhang, Wan, Mlotshwa, Vance, Berger, Chen, Lu: "Oncogenic Wip1 phosphatase is inhibited by miR-16 in the DNA damage signaling pathway." in: **Cancer research**, Vol. 70, Issue 18, pp. 7176-86, (2010) ([PubMed](#)).

Nguyen, Slattery, Moon, Darlington, Lu, Donehower: "The oncogenic phosphatase WIP1 negatively regulates nucleotide excision repair." in: **DNA repair**, Vol. 9, Issue 7, pp. 813-23, (2010) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)



### Western Blotting

**Image 1.** The anti-M1D Pab (ABIN392853 and ABIN2842271) is used in Western blot to detect M1D in 293 cell lysate.