

Datasheet for 600-401-DS3**PPM1D Antibody****Overview**

Description:	Anti-PPM1D (RABBIT) Antibody - 600-401-DS3
Item No.:	600-401-DS3
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	Wild-type p53 induced phosphatase 1 (WIP1) / protein phosphatase magnesium-dependent 1 delta (PPM1D), a protein identified in the p53 DNA response pathway, is a member of the PP2C family of serine/threonine protein phosphatases which selectively inactivates p38 MAPK and dephosphorylates the ATM/ATR targets, Chk1 and p53 (1,2). Studies have shown that it is overexpressed in human cancers and is involved in the regulation of multiple DNA damage signaling pathways (2,3). PPM1D deletion results in a reduction of T and B cell function and compromised cell division, rendering cells resistant to becoming cancerous and slowing tumor development (4,5).
Synonyms:	Protein phosphatase Mg ²⁺ /Mn ²⁺ dependent 1D, p53-induced protein phosphatase 1, PP2C-DELTA, Protein phosphatase 1D, WIP1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	PPM1D
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-PPM1D antibody was prepared from whole rabbit serum produced by repeated immunizations with an 18 amino acid peptide near the C-terminus of human PPM1D.

Purity/Specificity:	Anti-PPM1D antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. PPM1D antibody is human, mouse and rat reactive. At least two isoforms of PPM1D are known to exist; this antibody will only detect the larger isoform.
Relevant Links:	• UniProtKB - Q8IVR6 • GeneID - 8493 • NCBI - NP_003611

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-PPM1D Antibody has been tested for use in ELISA, immunohistochemistry, immunofluorescence, and Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 47 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:20,000
IF:	20 µg/mL
IHC:	5 µg/mL
WB:	1-2 µg/mL

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0mg/ml by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

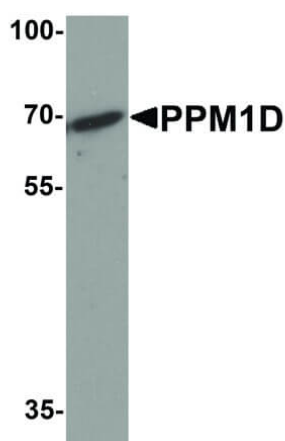
Shipping & Handling

Shipping Condition:	Dry Ice
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Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western Blot of Rabbit anti-PPM1D antibody. Lane A: 3T3 cell lysate. Primary antibody: PPM1D antibody at 1 µg/mL overnight at 4°C. Secondary antibody: Goat anti-Rabbit HRP secondary antibody. Block: 5% BLOTTO. Predicted/Observed size: 67 kDa, 68 kDa for PPM1D.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.