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# Datasheet for ABIN6264315 anti-PML antibody (N-Term)

4 Images

1 Publication



## Overview

Quantity:	100 µL
Target:	PML
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PML antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), ELISA, Immunocytochemistry (ICC)

# Product Details

Immunogen:	A synthesized peptide derived from human PML, corresponding to a region within N-terminal amino acids.
Isotype:	lgG
Specificity:	PML Antibody detects endogenous levels of total PML.
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink <sup>TM</sup> Coupling Resin (Thermo Fisher Scientific).

# Target Details

Target:	PML
Alternative Name:	PML (PML Products)

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Description: Functions via its association with PML-nuclear bodies (PML-NBs) in a wide range of important cellular processes, including tumor suppression, transcriptional regulation, apoptosis, senescence, DNA damage response, and viral defense mechanisms. Acts as the scaffold of PML-NBs allowing other proteins to shuttle in and out, a process which is regulated by SUMO-mediated modifications and interactions. Isoform PML-4 has a multifaceted role in the regulation of apoptosis and growth suppression: activates RB1 and inhibits AKT1 via interactions with PP1 and PP2A phosphatases respectively, negatively affects the PI3K pathway by inhibiting MTOR and activating PTEN, and positively regulates p53/TP53 by acting at different levels (by promoting its acetylation and phosphorylation and by inhibiting its MDM2dependent degradation). Isoform PML-4 also: acts as a transcriptional repressor of TBX2 during cellular senescence and the repression is dependent on a functional RBL2/E2F4 repressor complex, regulates double-strand break repair in gamma-irradiation-induced DNA damage responses via its interaction with WRN, acts as a negative regulator of telomerase by interacting with TERT, and regulates PER2 nuclear localization and circadian function. Isoform PML-6 inhibits specifically the activity of the tetrameric form of PKM. The nuclear isoforms (isoform PML-1, isoform PML-2, isoform PML-3, isoform PML-4 and isoform PML-5) in concert with SATB1 are involved in local chromatin-loop remodeling and gene expression regulation at the MHC-I locus. Isoform PML-2 is required for efficient IFN-gamma induced MHC II gene transcription via regulation of CIITA. Cytoplasmic PML is involved in the regulation of the TGFbeta signaling pathway. PML also regulates transcription activity of ELF4 and can act as an important mediator for TNF-alpha- and IFN-alpha-mediated inhibition of endothelial cell network formation and migration. Gene: PML

Molecular Weight:	98kDa
Gene ID:	5371
UniProt:	P29590
Pathways:	p53 Signaling, Retinoic Acid Receptor Signaling Pathway, Maintenance of Protein Location, Positive Regulation of Endopeptidase Activity, Protein targeting to Nucleus

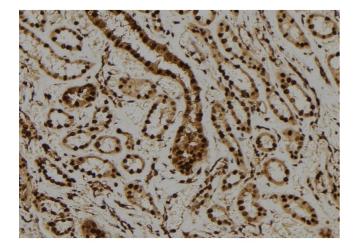
# Application Details

Application Notes:WB 1:500-1:2000, IHC 1:50-1:200, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000Restrictions:For Research Use only

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Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
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:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months
Publications	
Product cited in:	Liu, Wu, Zhu, Li, Liu: "IRG1 increases MHC class I level in macrophages through STAT-TAP1 axis depending on NADPH oxidase mediated reactive oxygen species." in: <b>International immunopharmacology</b> , Vol. 48, pp. 76-83, (2018) (PubMed).
	Chen, Zhou, Liu, Huang, Liu, Kang, Chen, Guo, Zhu, Sun: "Combination of gemcitabine and erlotinib inhibits recurrent pancreatic cancer growth in mice via the JAK-STAT pathway." in: <b>Oncology reports</b> , Vol. 39, Issue 3, pp. 1081-1089, (2018) (PubMed).

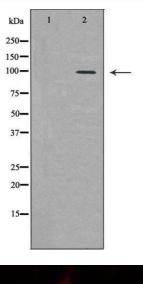
## Images



#### Immunohistochemistry

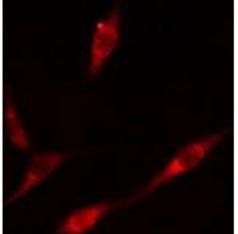
**Image 1.** ABIN6276587 at 1/100 staining Human kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22<sub>i</sub>ãC. An HRP conjugated goat anti-rabbit antibody was used as the secondary

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#### **Western Blotting**

**Image 2.** Western blot analysis of HeLa lysate using PML antibody. The lane on the left is treated with the antigenspecific peptide.



#### Immunofluorescence (fixed cells)

**Image 3.** ABIN6276587 staining A549 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25jãC. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37jãC. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody(Cat.# S0006), diluted at 1/600, was used as secondary antibod

Please check the product details page for more images. Overall 4 images are available for ABIN6264315.

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