

Datasheet for ABIN6242530  
**anti-PML antibody (AA 483-515)**



[Go to Product page](#)

1 Image

## Overview

Quantity:	50 µL
Target:	PML
Binding Specificity:	AA 483-515
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PML antibody is un-conjugated
Application:	Western Blotting (WB)

## Product Details

Immunogen:	This PML antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 483-515 amino acids from the Central region of human PML.
Clone:	RB48161
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

## Target Details

Target:	PML
Alternative Name:	PML ( <a href="#">PML Products</a> )
Background:	Functions via its association with PML-nuclear bodies (PML-NBs) in a wide range of important

## Target Details

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 MDM2-dependent 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 TGF-beta 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.

Molecular Weight:	97551
UniProt:	<a href="#">P29590</a>
Pathways:	<a href="#">p53 Signaling</a> , <a href="#">Retinoic Acid Receptor Signaling Pathway</a> , <a href="#">Maintenance of Protein Location</a> , <a href="#">Positive Regulation of Endopeptidase Activity</a> , <a href="#">Protein targeting to Nucleus</a>

## Application Details

Application Notes:	WB: 1:2000
Restrictions:	For Research Use only

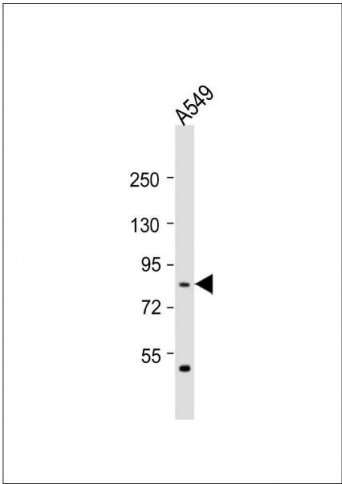
## Handling

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

Handling

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
Expiry Date:	6 months

Images



**Western Blotting**

**Image 1.** Anti-L Antibody (Center) at 1:2000 dilution + A549 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 98 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.