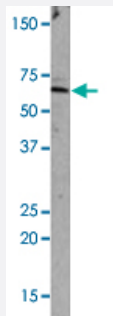


# PML polyclonal antibody

Catalog # PAB4343

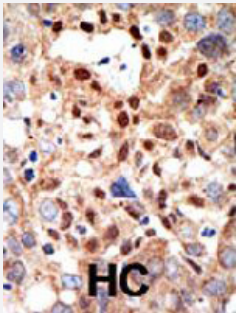
Size 400 uL

## Applications



### Western Blot (Cell lysate)

Western blot analysis of PmL polyclonal antibody (Cat # PAB4343) in HeLa cell line lysates (35 ug/lane). PmL (arrow) was detected using the purified Pab.



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human hepatocellular carcinoma tissue reacted with PML polyclonal antibody (Cat # PAB4343) , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining . This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated . HC = hepatocarcinoma .

## Specification

<b>Product Description</b>	Rabbit polyclonal antibody raised against synthetic peptide of PML.
<b>Immunogen</b>	A synthetic peptide (conjugated with KLH) corresponding to human PML.
<b>Sequence</b>	PRKVIKMESEEGKEA
<b>Host</b>	Rabbit
<b>Reactivity</b>	Human
<b>Specificity</b>	This antibody recognize synthetic peptide (PRKVIKMESEEGKEA) containing a predicted sumoylation site of human PML.

Form	Liquid
Purification	Protein G purification
Recommend Usage	ELISA (1:1000) Western Blot (1:100-500) Immunohistochemistry (1:50-100) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Western Blot (Cell lysate)

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- Enzyme-linked Immunoabsorbent Assay

## Gene Info — PML

Entrez GeneID	<a href="#">5371</a>
Protein Accession#	<a href="#">NP_150242;P29590</a>
Gene Name	PML
Gene Alias	MYL, PP8675, RNF71, TRIM19
Gene Description	promyelocytic leukemia
Omim ID	<a href="#">102578</a>
Gene Ontology	<a href="#">Hyperlink</a>

## Gene Summary

The protein encoded by this gene is a member of the tripartite motif (TRIM) family. The TRIM motif includes three zinc-binding domains, a RING, a B-box type 1 and a B-box type 2, and a coiled-coil region. This phosphoprotein localizes to nuclear bodies where it functions as a transcription factor and tumor suppressor. Its expression is cell-cycle related and it regulates the p53 response to oncogenic signals. The gene is often involved in the translocation with the retinoic acid receptor alpha gene associated with acute promyelocytic leukemia (APL). Extensive alternative splicing of this gene results in several variations of the protein's central and C-terminal regions; all variants encode the same N-terminus. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq]

## Other Designations

promyelocytic leukemia protein|promyelocytic leukemia, inducer of|tripartite motif protein TRIM19

## Publication Reference

- [Leukemia-associated translocation products able to activate RAS modify PML and render cells sensitive to arsenic-induced apoptosis.](#)

Puccetti E, Beissert T, Guller S, Li JE, Hoelzer D, Ottmann OG, Ruthardt M.

Oncogene 2003 Oct; 22(44):6900.

Application: WB-Tr, Human, U937 cells

- [High frequency of alternative splicing of human genes participating in the HIV-1 life cycle: a model using TSG101, betaTrCP, PPIA, INI1, NAF1, and PML.](#)

Favre M, Buttica C, Stevenson B, Jongeneel CV, Telenti A.

Journal of Acquired Immune Deficiency Syndromes 2003 Oct; 34(2):127.

- [ZIP kinase triggers apoptosis from nuclear PML oncogenic domains.](#)

Kawai T, Akira S, Reed JC.

Molecular and Cellular Biology 2003 Sep; 23(17):6174.

## Pathway

- [Acute myeloid leukemia](#)
- [Pathways in cancer](#)
- [Ubiquitin mediated proteolysis](#)

## Disease

- [Cerebral Hemorrhage](#)
- [Genetic Predisposition to Disease](#)
- [Hypertension](#)
- [Intracranial Hemorrhages](#)
- [Leukemia](#)
- [Stroke](#)
- [Subarachnoid Hemorrhage](#)
- [Tobacco Use Disorder](#)