

**Product Name: KD-Validated PML Mouse Monoclonal Antibody****Catalog #: KVA01851**

For research use only.

**Summary**

|                     |                                                                             |
|---------------------|-----------------------------------------------------------------------------|
| <b>Description</b>  | KO&KD-Validated antibody                                                    |
| <b>Host</b>         | Mouse                                                                       |
| <b>Application</b>  | WB,IHC-P                                                                    |
| <b>Reactivity</b>   | Human                                                                       |
| <b>Conjugation</b>  | Unconjugated                                                                |
| <b>Modification</b> | Unmodified                                                                  |
| <b>Isotype</b>      | Mouse IgG1                                                                  |
| <b>Clonality</b>    | Mouse mAb                                                                   |
| <b>Form</b>         | Liquid                                                                      |
| <b>Storage</b>      | Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles. |
| <b>Shipping</b>     | Ice bags                                                                    |
| <b>Buffer</b>       | Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.   |
| <b>Purification</b> | Affinity purification                                                       |

**Application**

|                         |                                     |
|-------------------------|-------------------------------------|
| <b>Dilution Ratio</b>   | WB 1:400-1:2,000; IHC-P 1:100-1:200 |
| <b>Molecular Weight</b> | Calculated MW: 97.6kDa              |

**Antigen Information**

|                          |                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>         | PML<br>PML; PML Nuclear Body Scaffold; TRIM19; RNF71; MYL; Tripartite Motif-Containing Protein 19; RING-Type E3 SUMO Transferase PML; Promyelocytic Leukemia Protein; E3 SUMO-Protein Ligase PML; RING Finger Protein 71; Protein PML; PP8675; Promyelocytic Leukemia, Inducer Of; Probable Transcription Factor PML; Tripartite Motif Protein TRIM19; Promyelocytic Leukemia; PML/RARA Fusion; EC 2.3.2.- |
| <b>Alternative Names</b> |                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Gene ID</b>           | 5371.0                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>SwissProt ID</b>      | P29590                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Immunogen</b>         | Recombinant protein of human PML                                                                                                                                                                                                                                                                                                                                                                           |

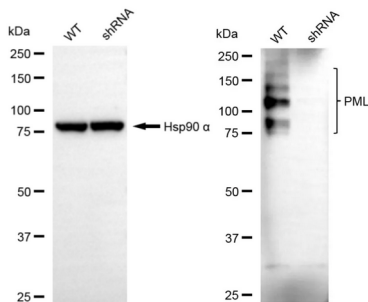
**Background**

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, Jul 2008]

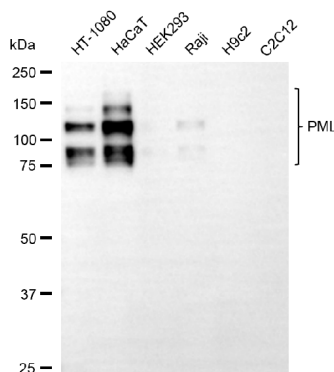
## Research Area

Epigenetics and Nuclear Signaling,Cancer,Metabolism

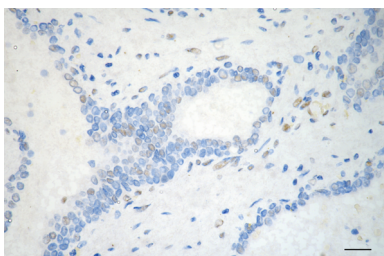
## Image Data



Western blotting analysis using PML antibody (KVA01851). PML expression in wild-type (WT) and PML shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with PML antibody (KVA01851, 1:2,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using PML antibody (KVA01851). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with PML antibody (KVA01851, 1:2,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Immunohistochemistry was performed on paraffin-embedded human prostatic adenocarcinoma using PML antibody (KVA01851, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.