

For Research Use Only

PML Polyclonal antibody

Catalog Number: 21041-1-AP

Featured Product

12 Publications



Basic Information

Catalog Number:

21041-1-AP

Size:

150ul, Concentration: 600 µg/ml by Nanodrop and 280 µg/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG15377

GenBank Accession Number:

BC020994

GeneID (NCBI):

5371

UNIPROT ID:

P29590

Full Name:

promyelocytic leukemia

Calculated MW:

882 aa, 98 kDa

Observed MW:

120 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:4000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:100-1:400

IF 1:50-1:500

Applications

Tested Applications:

IF, IHC, IP, WB, ELISA

Cited Applications:

IF, IHC, WB

Species Specificity:

human, mouse

Cited Species:

human

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HeLa cells, HEK-293 cells

IP : HEK-293 cells,

IHC : human liver tissue,

IF : HeLa cells,

Background Information

PML, also named as MYL, RNF71 and TRIM19, is a member of RBCC/TRIM family of proteins that possess a RING finger domain, B-box, and coiled-coil domain. It functions as tumor suppressor. PML is required for normal, caspase-dependent apoptosis in response to DNA damage, FAS, TNF, or interferons. It plays a role in transcription regulation, DNA damage response, DNA repair and chromatin organization. PML plays a role in processes regulated by retinoic acid, regulation of cell division, terminal differentiation of myeloid precursor cells and differentiation of neural progenitor cells. It regulates PTEN compartmentalization through the inhibition of USP7-mediated deubiquitylation. A large number of alternative spliced transcripts are synthesized from the PML gene, resulting in a variety of PML proteins ranging in molecular weight from 48-97 kDa (PMID:11704850). And it can be detected as 70-130 kDa or larger due to the modification (especially SUMO) (PMID: 16778193, 22438555).

Notable Publications

Author	Pubmed ID	Journal	Application
Orhi Barroso-Gomila	34795231	Nat Commun	WB,IF
Jiaojiao Shen	34763147	Mol Immunol	WB
Yang Li	32481657	Molecules	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

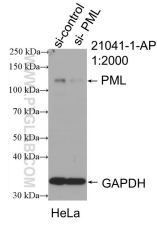
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

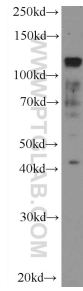
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

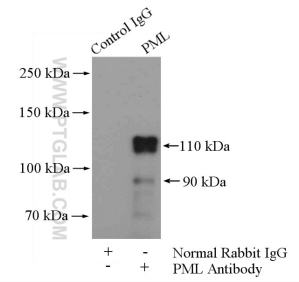
Selected Validation Data



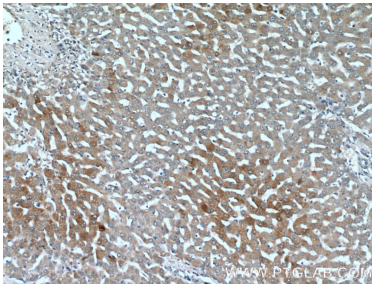
WB result of PML antibody (21041-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PML transfected HeLa cells.



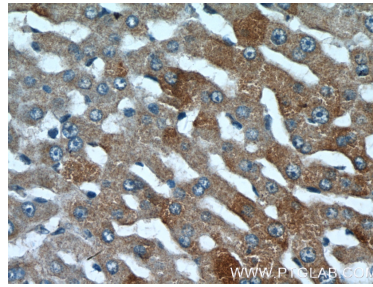
HEK-293 cells were subjected to SDS PAGE followed by western blot with 21041-1-AP (PML Antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



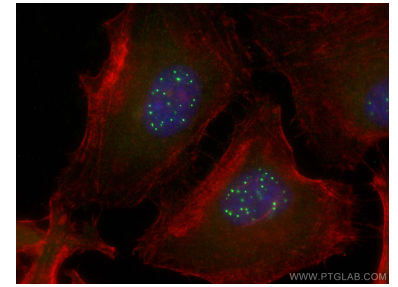
IP result of anti-PML (IP:21041-1-AP, 4ug; Detection:21041-1-AP 1:500) with HEK-293 cells lysate 3200ug.



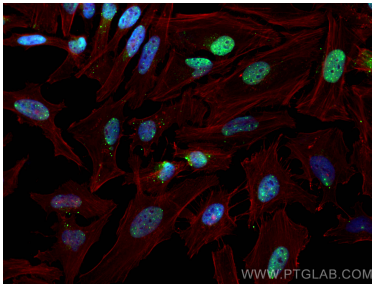
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 21041-1-AP (PML Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 21041-1-AP (PML Antibody) at dilution of 1:200 (under 40x lens).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using PML antibody (21041-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using PML antibody (21041-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).