

For Research Use Only

# PSMD7 Polyclonal antibody

Catalog Number: 16034-1-AP

Featured Product

4 Publications



## Basic Information

### Catalog Number:

16034-1-AP

### Size:

150ul, Concentration: 300 ug/ml by Nanodrop and 267 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG8905

### GenBank Accession Number:

BC012606

### GeneID (NCBI):

5713

### UNIPROT ID:

P51665

### Full Name:

proteasome (prosome, macropain)  
26S subunit, non-ATPase, 7

### Calculated MW:

324 aa, 37 kDa

### Observed MW:

37 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:3000

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

IHC 1:500-1:2000

IF/ICC 1:10-1:100

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IF, IP, ColP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse

### Positive Controls:

WB: HeLa cells, K-562 cells, mouse liver tissue, rat liver tissue

IP: K-562 cells,

IHC: human colon cancer tissue, human lung cancer tissue, mouse liver tissue, rat kidney tissue

IF/ICC: HepG2 cells,

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

## Background Information

Proteasome 26S subunit, non-ATPase 7 (PSMD7), an ATP-independent component of the 19S regulatory subunit, is a member of the JAMM/MPN domain-associated metalloprotease (JAMM) DUB family. PSMD7, as a core component of the 26S proteasome, is critical for the degradation of ubiquitinated proteins in the proteasome. PSMD7 arrests cell cycle in the G2/M phase during HIV infection. The molecular weight of PSMD7 is 37 kDa. (PMID: 34512150, 34234864)

## Notable Publications

Author	Pubmed ID	Journal	Application
Jianjiang Wang	34512150	Int J Biol Sci	WB, ColP
Jiangyun Shen	39333628	EMBO Rep	IF
Chen Luo	38494478	Cell Biosci	WB, IP, ColP

## 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

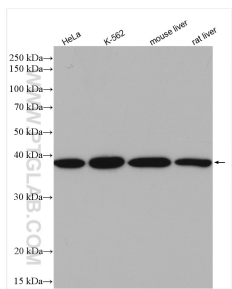
For technical support and original validation data for this product please contact:

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

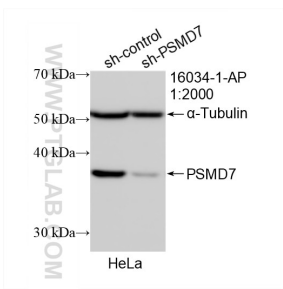
E: proteintech@ptglab.com  
W: ptglab.com

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

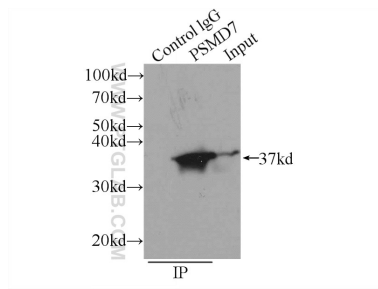
Selected Validation Data



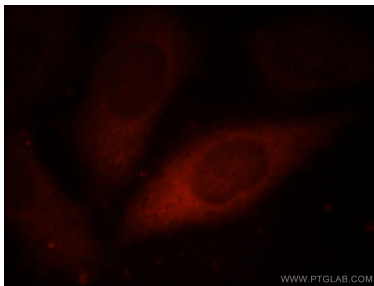
Various lysates were subjected to SDS PAGE followed by western blot with 16034-1-AP (PSMD7 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



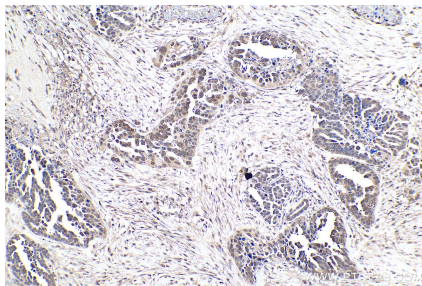
WB result of PSMD7 antibody (16034-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PSMD7 transfected HeLa cells.



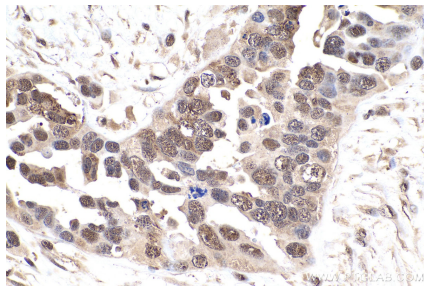
IP result of anti-PSMD7 (IP:16034-1-AP, 3ug; Detection:16034-1-AP 1:500) with K-562 cells lysate 2400ug.



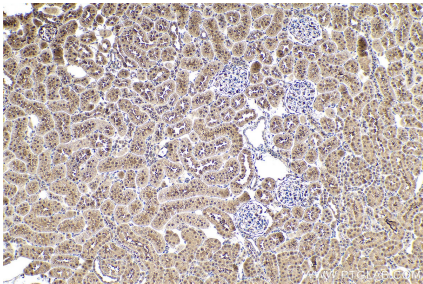
Immunofluorescent analysis of HepG2 cells, using PSMD7 antibody 16034-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



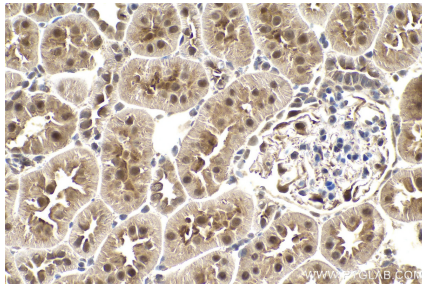
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 16034-1-AP (PSMD7 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



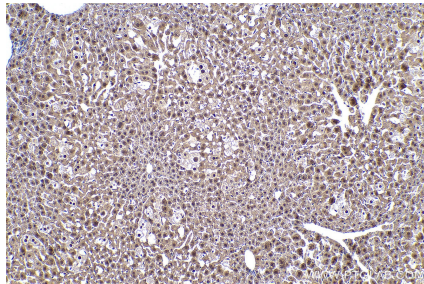
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 16034-1-AP (PSMD7 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



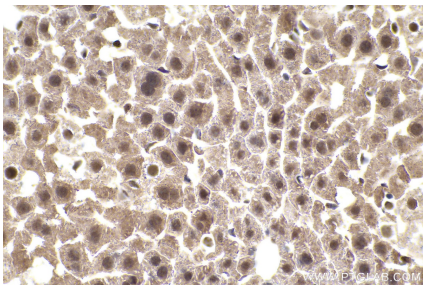
Immunohistochemical analysis of paraffin-embedded rat kidney tissue slide using 16034-1-AP (PSMD7 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat kidney tissue slide using 16034-1-AP (PSMD7 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 16034-1-AP (PSMD7 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 16034-1-AP (PSMD7 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).