

For Research Use Only

# PSMD7 Polyclonal antibody

Catalog Number: 16034-1-AP

Featured Product

2 Publications



## Basic Information

<b>Catalog Number:</b> 16034-1-AP	<b>GenBank Accession Number:</b> BC012606	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 300 µg/ml by Nanodrop and 267 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 5713	<b>Recommended Dilutions:</b> 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 1:10-1:100
<b>Source:</b> Rabbit	<b>Full Name:</b> proteasome (prosome, macropain) 26S subunit, non-ATPase, 7	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 324 aa, 37 kDa	
<b>Immunogen Catalog Number:</b> AG8905	<b>Observed MW:</b> 37 kDa	

## Applications

**Tested Applications:**  
FC, IF, IHC, IP, WB, ELISA

**Cited Applications:**  
CoIP, IF, WB

**Species Specificity:**  
human, mouse, rat

**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, 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:** HepG2 cells,

## 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 metallopeptidase (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, CoIP
Jun Wang	38040402	Cell Signal	WB, IF, CoIP

## 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

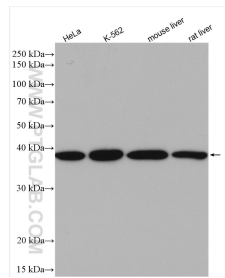
For technical support and original validation data for this product please contact:

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

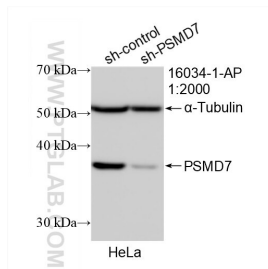
E: proteintech@ptglab.com  
W: ptglab.com

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

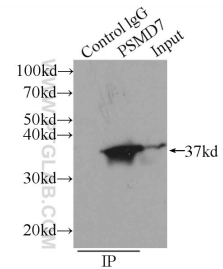
## Selected Validation Data



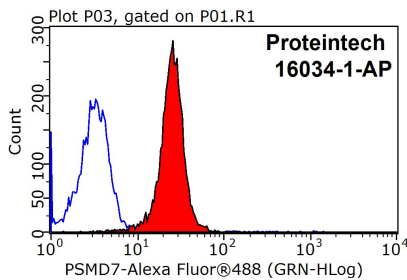
Various lysates were subjected to SDS PAGE followed by western blot with 16034-1-AP (PSMD7 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



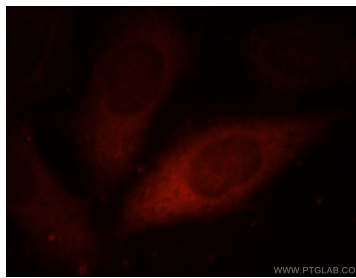
WB result of PSMD7 antibody (16034-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PSMD7 transfected HeLa cells.



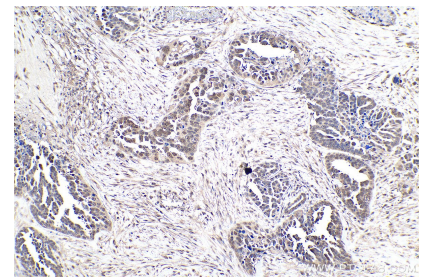
IP Result of anti-PSMD7 (IP:16034-1-AP, 3ug; Detection:16034-1-AP 1:500) with K-562 cells lysate 2400ug.



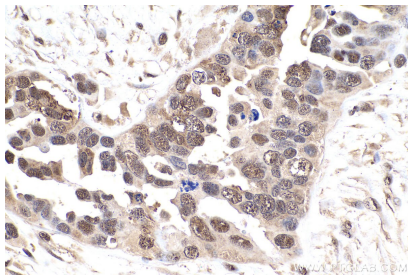
1X10<sup>6</sup> HepG2 cells were stained with 0.2ug PSMD7 antibody (16034-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1500.



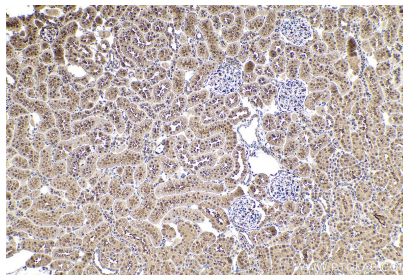
Immunofluorescent analysis of HepG2 cells, using PSMD7 antibody 16034-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



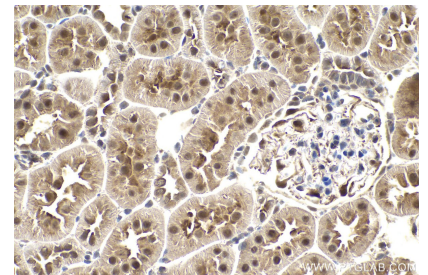
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 16034-1-AP (PSMD7 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



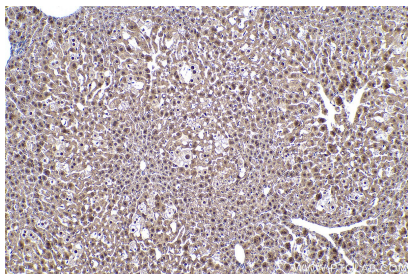
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 16034-1-AP (PSMD7 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



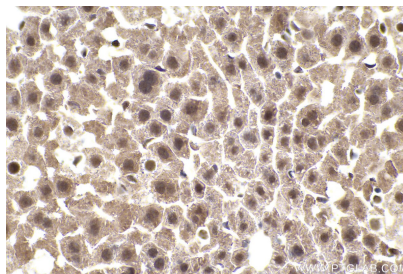
Immunohistochemical analysis of paraffin-embedded rat kidney tissue slide using 16034-1-AP (PSMD7 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).