

For Research Use Only

# PSMB1 Polyclonal antibody

Catalog Number: 11749-1-AP

16 Publications



## Basic Information

### Catalog Number:

11749-1-AP

### Size:

150ul, Concentration: 550 ug/ml by Nanodrop and 300 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG2345

### GenBank Accession Number:

BC020807

### GeneID (NCBI):

5689

### UNIPROT ID:

P20618

### Full Name:

proteasome (prosome, macropain) subunit, beta type, 1

### Calculated MW:

241 aa, 26 kDa

### Observed MW:

25 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

IHC 1:250-1:1000

IF/ICC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, FC (Intra), ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat

**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 : MCF-7 cells, human brain tissue, HepG2 cells, HeLa cells, NIH/3T3 cells

IHC : human liver cancer tissue, human breast cancer tissue

IF/ICC : U2OS cells,

## Background Information

PSMB1(Proteasome subunit beta type-1) is also named as PSC5 and belongs to the peptidase T1B family. The proteasome is a multicatalytic proteinase complex which is characterized by its ability to cleave peptides with Arg, Phe, Tyr, Leu, and Glu adjacent to the leaving group at neutral or slightly basic pH. The gene encodes a 241 amino acid protein with a 28 amino acid propeptide and two glycosylation sites.

## Notable Publications

Author	Pubmed ID	Journal	Application
Fangyi Wu	36124946	Rheumatology (Oxford)	WB
Huan-Xiong Chen	25415668	Medicine (Baltimore)	IHC
Guiyou Tian	34010456	EMBO J	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

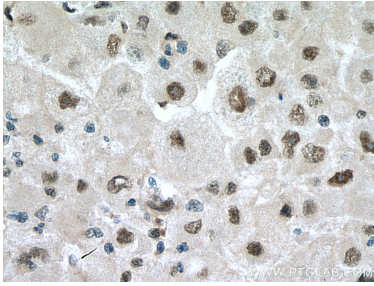
For technical support and original validation data for this product please contact:

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

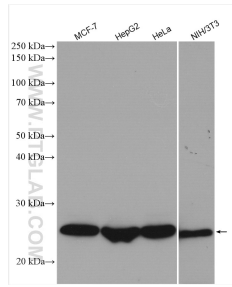
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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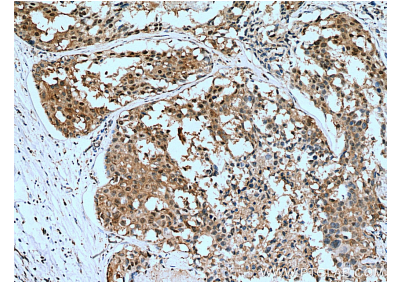
## Selected Validation Data



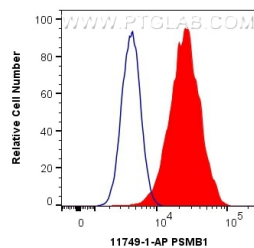
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 11749-1-AP (PSMB1 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



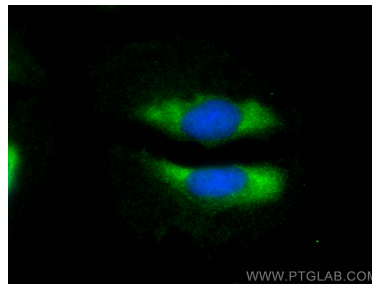
Various lysates were subjected to SDS PAGE followed by western blot with 11749-1-AP (PSMB1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 11749-1-AP (PSMB1 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10<sup>6</sup> HeLa cells were intracellularly stained with 0.4 ug Anti-Human PSMB1 (11749-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunofluorescent analysis of (-20°C Methanol) fixed U2OS cells using PSMB1 antibody (11749-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).