

For Research Use Only

# PSMB2 Polyclonal antibody

Catalog Number: 15154-1-AP

Featured Product

8 Publications



## Basic Information

### Catalog Number:

15154-1-AP

### Size:

150ul, Concentration: 200 ug/ml by Nanodrop and 153 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG7198

### GenBank Accession Number:

BC000268

### GeneID (NCBI):

5690

### UNIPROT ID:

P49721

### Full Name:

proteasome (prosome, macropain) subunit, beta type, 2

### Calculated MW:

23 kDa

### Observed MW:

23 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

IF/ICC 1:20-1:200

## Applications

### Tested Applications:

WB, IF/ICC, ELISA

### Cited Applications:

WB

### Species Specificity:

human

### Cited Species:

human, mouse, rat

### Positive Controls:

WB : HEK-293T cells, HEK-293 cells, HeLa cells, Jurkat cells

IF/ICC : HepG2 cells,

## Background Information

PSMB2, Proteasome subunit beta type-2, is also known as 20S proteasome subunit beta-4(PMID: 7918633). The proteasome is responsible for degradation of short lived and misfolded cytosolic and nuclear proteins in the cell and cleaves peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway. PSMB2 is up-regulated in ovarian cancer cell lines. The up-regulation of PSMB2 may indicate the activated neuronal defensive mechanism in VAD (vitamin A depletion) brain regions (PMID: 21190828). Knockdown of PSMB2 suppresses hepatocellular carcinoma and gastric cancer cell proliferation and invasion (PMID: 29780166, PMID: 36110152).

## Notable Publications

Author	Pubmed ID	Journal	Application
Sheng Tan	29780166	Oncogene	WB
Chang-Xin Shi	32561655	Mol Cancer Res	WB
Xin Xie	32595507	Front Pharmacol	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

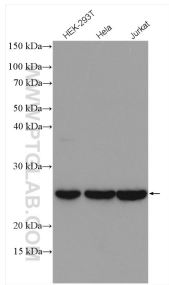
For technical support and original validation data for this product please contact:

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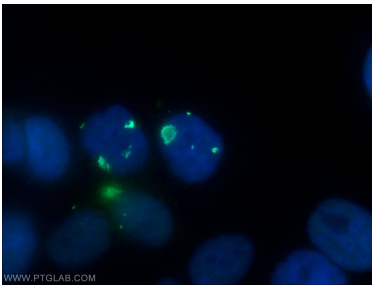
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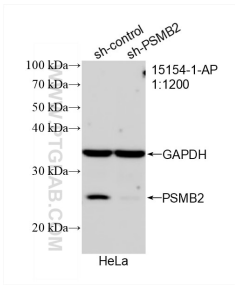
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 15154-1-AP (PSMB2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of HepG2 cells using 15154-1-AP (PSMB2 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



WB result of PSMB2 antibody (15154-1-AP; 1:1200; incubated at room temperature for 1.5 hours) with sh-Control and sh-PSMB2 transfected HeLa cells.