

For Research Use Only

# PSMB8 Polyclonal antibody

Catalog Number: 14859-1-AP

Featured Product

11 Publications



## Basic Information

### Catalog Number:

14859-1-AP

### Size:

150ul, Concentration: 307 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG6660

### GenBank Accession Number:

BC001114

### GeneID (NCBI):

5696

### UNIPROT ID:

P28062

### Full Name:

proteasome (prosome, macropain) subunit, beta type, 8 (large multifunctional peptidase 7)

### Calculated MW:

30 kDa

### Observed MW:

23 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:5000-1:50000

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

IHC 1:50-1:500

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse

### Cited Species:

human, mouse

### Positive Controls:

WB: Jurkat cells, mouse kidney tissue, human kidney tissue

IP: Raji cells,

IHC: mouse spleen 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

PSMB8 (Proteasome subunit beta type-8) is also named as LMP7, PSMB5i, RING10, Y2 and belongs to the peptidase T1B family. The gene encodes the chymotrypsin-like catalytic subunit of the immunoproteasome (PMID: 19525961). PSMB8 has a role in controlling pathogenic immune responses and may be a target in autoimmune disorders. Its prosequence is not essential for incorporation of PSMB8 into the maturing proteasome, but it increased the efficiency of PSMB8 incorporation and proteasome maturation (PMID: 10926487). The pro-PSMB8 is a 276aa protein with the molecular mass of 30 kDa, and the mature form is about 23kDa due to the 72aa propeptide cleaved. Defects in PSMB8 are the cause of Nakajo syndrome (NKJO).

## Notable Publications

Author	Pubmed ID	Journal	Application
Xinlong Fan	31559672	J Cell Mol Med	WB
Hiroyuki Kondo	31915251	J Biol Chem	WB, IHC
Yuwei Zhang	35219165	Int Immunopharmacol	

## 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

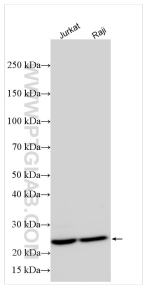
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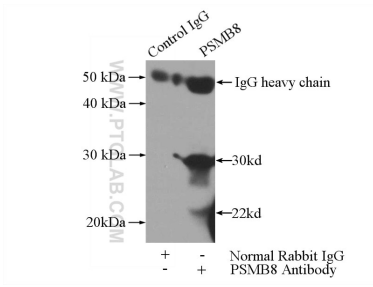
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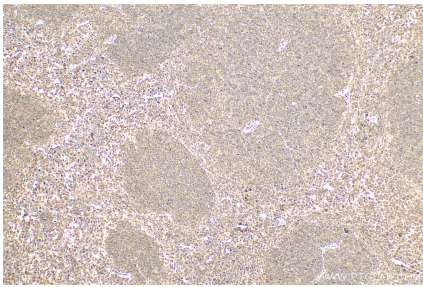
Selected Validation Data



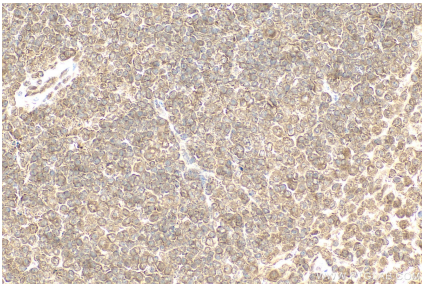
Various lysates were subjected to SDS PAGE followed by western blot with 14859-1-AP (PSMB8 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



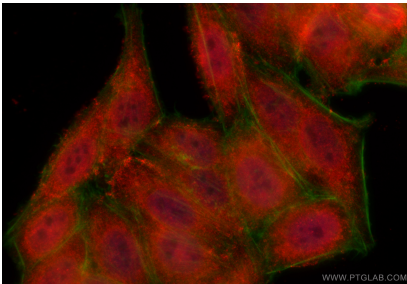
IP result of anti-PSMB8 (IP:14859-1-AP, 3ug; Detection:14859-1-AP 1:1000) with Raji cells lysate 2800ug.



Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 14859-1-AP (PSMB8 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 14859-1-AP (PSMB8 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using PSMB8 antibody (14859-1-AP) at dilution of 1:400 and CoraLite@594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4), CL488-Phalloidin (green).