

For Research Use Only

# PSMB2 Monoclonal antibody

Catalog Number: 68180-1-Ig



## Basic Information

<b>Catalog Number:</b> 68180-1-Ig	<b>GenBank Accession Number:</b> BC000268	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 5690	<b>CloneNo.:</b> 3C5C5
<b>Source:</b> Mouse	<b>Full Name:</b> proteasome (prosome, macropain) subunit, beta type, 2	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IF 1:400-1:1600
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 23 kDa	
<b>Immunogen Catalog Number:</b> AG7308	<b>Observed MW:</b> 23 kDa	

## Applications

**Tested Applications:**  
IF, WB, ELISA

**Species Specificity:**  
Human, mouse, rat

**Positive Controls:**

**WB :** MCF-7 cells, SKOV-3 cells, HeLa cells, HEK-293 cells, HepG2 cells, Jurkat cells, K-562 cells, HSC-T6 cells, NIH/3T3 cells

**IF :** HepG2 cells, HCT 116 cells, PC-3 cells

## Background Information

PSMB2(proteasome subunit beta type-2) is also named as macropain subunit C7-I, proteasome component C7-I, multicatalytic endopeptidase complex subunit C7-I and belongs to the peptidase T1B family. It is involved in an ATP/ubiquitin-dependent non-lysosomal proteolytic pathway. The up-regulation of PSMB2 may indicate the activated neuronal defensive mechanism in VAD(vitamin A depletion) brain regions, which may underlie the VAD-related psychosis behavior(PMID:21190828).

## 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

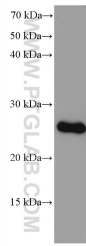
For technical support and original validation data for this product please contact:

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

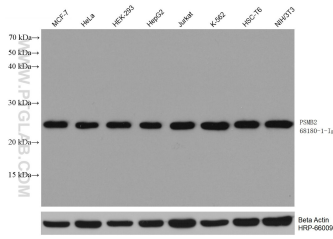
E: proteintech@ptglab.com  
W: ptglab.com

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

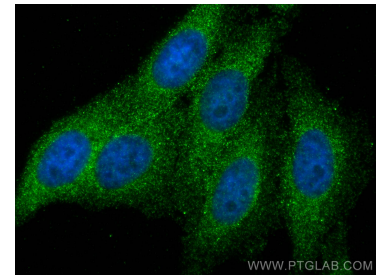
## Selected Validation Data



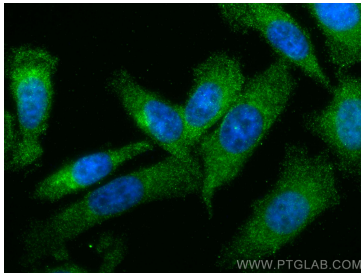
SKOV-3 cells were subjected to SDS PAGE followed by western blot with 68180-1-Ig (PSMB2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



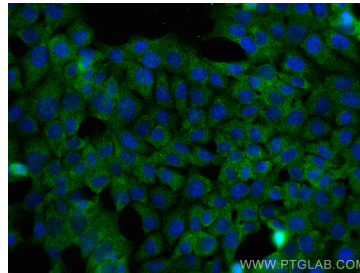
Various lysates were subjected to SDS PAGE followed by western blot with 68180-1-Ig (PSMB2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Beta Actin Monoclonal antibody (HRP-66009) as loading control.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using PSMB2 antibody (68180-1-Ig, Clone: 3C5C5 ) at dilution of 1:800 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed PC-3 cells using PSMB2 antibody (68180-1-Ig, Clone: 3C5C5 ) at dilution of 1:800 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed HCT 116 cells using PSMB2 antibody (68180-1-Ig, Clone: 3C5C5 ) at dilution of 1:800 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).