

# Multi-rAb® PSMD4 Multi-Recombinant antibody

Catalog Number: RMX00058

## Basic Information

|                             |                                                                             |                                              |
|-----------------------------|-----------------------------------------------------------------------------|----------------------------------------------|
| Catalog Number:<br>RMX00058 | GenBank Accession Number:<br>BC002365                                       | Purification Method:<br>N/A                  |
| Source:<br>Rabbit           | GeneID (NCBI):<br>5710                                                      | Recommended Dilutions:<br>WB: 1:5000-1:50000 |
| Isotype:<br>IgG             | UNIPROT ID:<br>P55036                                                       | IHC: 1:50-1:500<br>IF/ICC: 1:200-1:800       |
|                             | Full Name:<br>proteasome (prosome, macropain)<br>26S subunit, non-ATPase, 4 |                                              |
|                             | Calculated MW:<br>41 kDa                                                    |                                              |
|                             | Observed MW:<br>50 kDa                                                      |                                              |

## Applications

Tested Applications:  
WB, IHC, IF/ICC, ELISA

Species Specificity:  
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: Raji cells, K-562 cells, RAW 264.7 cells, rat spleen tissue

IHC: mouse testis tissue,

IF/ICC: HepG2 cells,

## Background Information

PSMD4, also named as MCB1, AF or ASF, belongs to the proteasome subunit S5A family. PSMD4 is a 50-kD subunit of the regulatory complex of the 26S proteasome. It binds and presumably selects ubiquitin-conjugates for destruction. PSMD4 displays selectivity for longer polyubiquitin chains. It modulates intestinal fluid secretion. PSMD4 is exposed on the sperm acrosomal surface, a notion that was further supported by the binding of non-cell permeant, biotinylated proteasomal inhibitor ZL3VS to the sperm acrosome. It is involved in the sperm-ZP penetration during fertilization. (PMID: 20526895)

## Storage

Storage:  
Store at -20°C. Stable for one year after shipment.  
Storage Buffer:  
PBS with 0.02% sodium azide and 50% glycerol.  
Aliquoting is unnecessary for -20°C storage

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

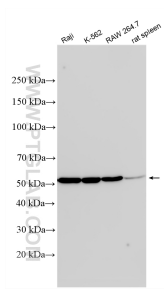
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

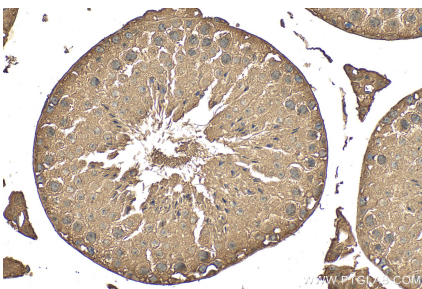
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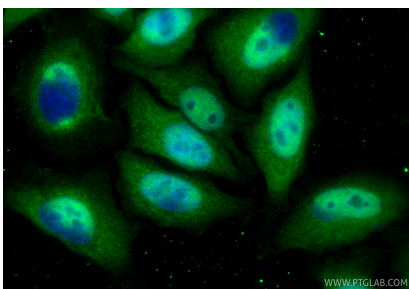
# Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with RMX00058 (PSMD4 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using RMX00058 (PSMD4 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 PSMD4 antibody (RMX00058) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).