

For Research Use Only

# PSMD4 Recombinant monoclonal antibody

Catalog Number: 86558-1-RR



## Basic Information

Catalog Number:	86558-1-RR	GenBank Accession Number:	BC002365	Purification Method:	Protein A purification
Size:	100ul, Concentration: 1000 µg/ml by Nanodrop;	GenID (NCBI):	5710	CloneNo.:	251460G8
Source:	Rabbit	UNIPROT ID:	P55036	Recommended Dilutions:	WB: 1:5000-1:50000 IHC: 1:300-1:1200 IF/ICC: 1:50-1:500
Isotype:	IgG	Full Name:	proteasome (prosome, macropain) 26S subunit, non-ATPase, 4		
Immunogen Catalog Number:	AG6691	Calculated MW:	41 kDa		
		Observed MW:	50 kDa		

## Applications

Tested Applications:	WB, IHC, IF/ICC, ELISA	Positive Controls:	
Species Specificity:	human, mouse, rat	WB:	HeLa cells, Jurkat cells, K-562 cells, Raji cells, NIH/3T3 cells, RAW 264.7 cells, HSC-T6 cells
		IHC:	mouse testis tissue,
		IF/ICC:	HeLa cells,
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>			

## 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

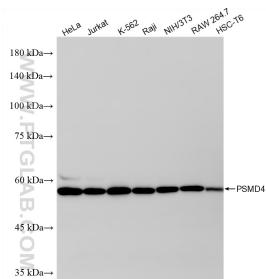
Storage: Store at -20°C. Stable for one year after shipment.  
Storage Buffer: PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

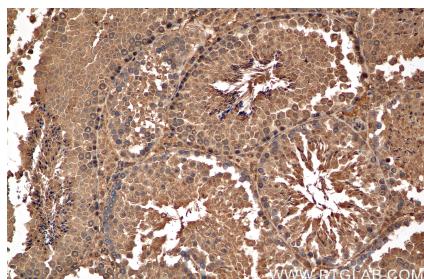
For technical support and original validation data for this product please contact:  
T: 1(888) 4PTGLAB (1-888-478-4522) (toll free  
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W: ptglab.com

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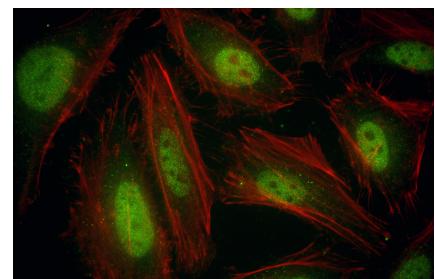
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 86558-1-RR (PSMD4 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 86558-1-RR (PSMD4 antibody) at dilution of 1:600 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using PSMD4 antibody (86558-1-RR, Clone: 251460G8) at dilution of 1:200 and Coralite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).