

# PSMD4 Monoclonal antibody, PBS Only

Catalog Number: 66179-1-PBS

## Basic Information

Catalog Number: 66179-1-PBS	GenBank Accession Number: BC002365	Purification Method: Protein A purification
Size: 1 mg/ml	GeneID (NCBI): 5710	CloneNo.: 3G1A1
Source: Mouse	UNIPROT ID: P55036	
Isotype: IgG1	Full Name: proteasome (prosome, macropain) 26S subunit, non-ATPase, 4	
Immunogen Catalog Number: AG7010	Calculated MW: 41 kDa	
	Observed MW: 50 kDa	

## Applications

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

**Species Specificity:**  
human, mouse, rat

## Background Information

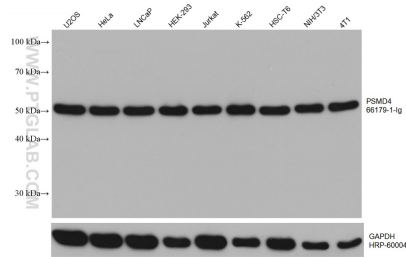
SMD4, also named as MCB1, AF or ASF, belongs to the proteasome subunit S5A family. It binds and presumably selects ubiquitin-conjugates for destruction. PSMD4 displays selectivity for longer polyubiquitin chains. It modulates intestinal fluid secretion. PSMD4 is exposed on the sperm acrosomal surface, 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) This antibody is specific to PSMD4.

## Storage

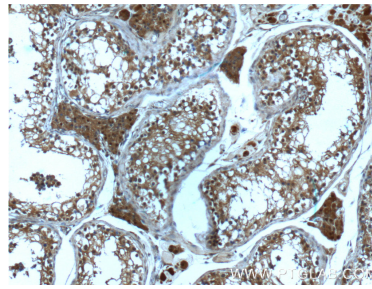
**Storage:**  
Store at -80°C.  
**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

**Storage Buffer:**  
PBS Only

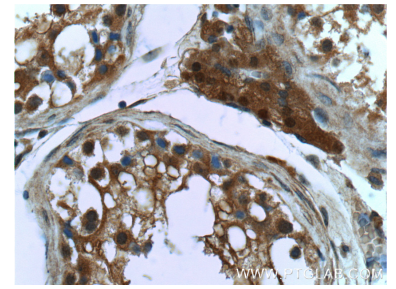
## Selected Validation Data



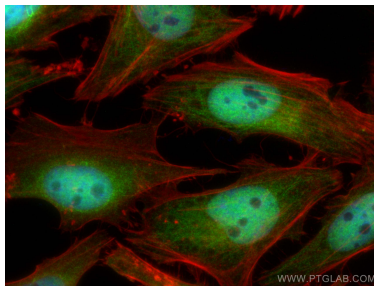
Various lysates were subjected to SDS PAGE followed by western blot with 66179-1-Ig (PSMD4 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control. This data was developed using the same antibody clone with 66179-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human testis tissue slide using 66179-1-Ig (PSMD4 Antibody) at dilution of 1:200 (under 10x lens). This data was developed using the same antibody clone with 66179-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human testis tissue slide using 66179-1-Ig (PSMD4 Antibody) at dilution of 1:200 (under 40x lens). This data was developed using the same antibody clone with 66179-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using PSMD4 antibody (66179-1-Ig, Clone: 3G1A1) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red). This data was developed using the same antibody clone with 66179-1-PBS in a different storage buffer formulation.