

For Research Use Only

PSMD4 Monoclonal antibody

Catalog Number: 66179-1-Ig



Basic Information

Catalog Number: 66179-1-Ig	GenBank Accession Number: BC002365	Purification Method: Protein G purification
Size: 150ul , Concentration: 1000 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 5710	CloneNo.: 3G1A1
Source: Mouse	Full Name: proteasome (prosome, macropain) 26S subunit, non-ATPase, 4	Recommended Dilutions: WB 1:500-1:2000 IHC 1:20-1:200 IF 1:20-1:200
Isotype: IgG1	Calculated MW: 41 kDa	
Immunogen Catalog Number: AG7010	Observed MW: 50 kDa	

Applications

Tested Applications: IF, IHC, WB, ELISA	Positive Controls: WB : HeLa cells, IHC : human testis tissue, IF : HeLa cells,
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	

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 ZL3V5 to the sperm acrosome. It is involved in the sperm-ZP penetration during fertilization. (PMID: 20526895) This antibody is specific to PSMD4.

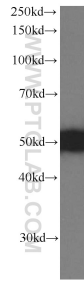
Storage

Storage:
Store at -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

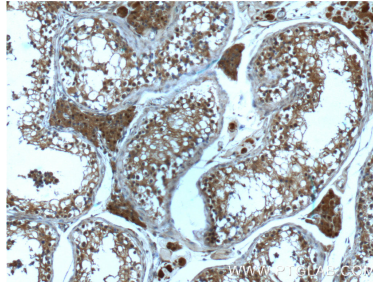
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com
W: ptglab.com

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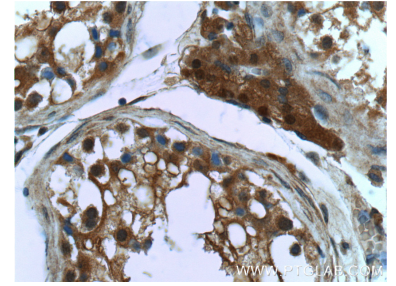
Selected Validation Data



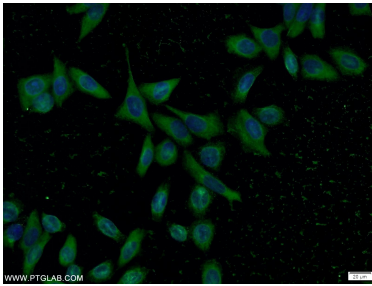
HeLa cells were subjected to SDS PAGE followed by western blot with 66179-1-Ig (PSMD4 Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human testis tissue slide using 66179-1-Ig (PSMD4 Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human testis tissue slide using 66179-1-Ig (PSMD4 Antibody) at dilution of 1:200 (under 40x lens).



Immunofluorescent analysis of HeLa cells using 66179-1-Ig (PSMD4 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG (H+L).