

PSMD4 Recombinant monoclonal antibody

Catalog Number: 86558-1-RR

Basic Information

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

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

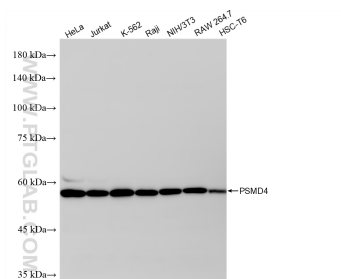
Storage

Storage:
Store at -20°C. Stable for one year after shipment.

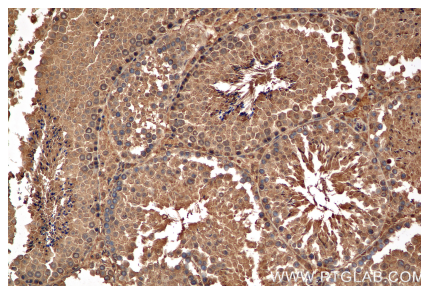
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

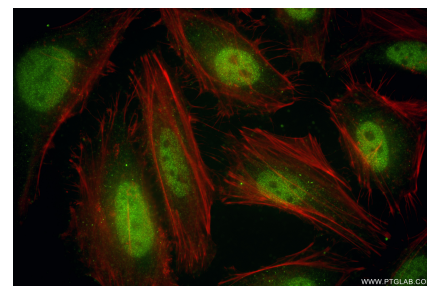
Selected Validation Data



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).