

For Research Use Only

# PSMD9 Monoclonal antibody

Catalog Number: 67338-1-Ig

Featured Product

2 Publications



## Basic Information

Catalog Number:

67338-1-Ig

Size:

150ul, Concentration: 1600 ug/ml by Nanodrop and 940 ug/ml by Bradford method using BSA as the standard;

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG25654

GenBank Accession Number:

BC004213

GeneID (NCBI):

5715

UNIPROT ID:

O00233

Full Name:

proteasome (prosome, macropain)  
26S subunit, non-ATPase, 9

Calculated MW:

27 kDa

Observed MW:

25-30 kDa

Purification Method:

Protein G purification

CloneNo.:

1H2G1

Recommended Dilutions:

WB: 1:2000-1:10000

IF/ICC: 1:400-1:1600

FC (Intra): 0.25 ug per 10<sup>6</sup> cells in a 100 µl suspension

## Applications

Tested Applications:

WB, IF/ICC, FC (Intra), ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, pig

Positive Controls:

WB: A549 cells, HEK-293 cells, NIH/3T3 cells, HSC-T6 cells, K-562 cells, Jurkat cells, LNCaP cells, HeLa cells, 4T1 cells, HepG2 cells

IF/ICC: U2OS cells, HeLa cells

FC (Intra): HeLa cells,

## Background Information

PSMD9 is a ubiquitous protein of eukaryotic cells and is a chaperon of the 26S proteasome complex, which degrades ubiquitinated proteins in eukaryotic cells and contributes to the degradation of intracellular proteins into antigenic peptides for antigen presentation by MHC class I cells. The 26S mammalian base sub-complex involves three distinct modules which have ATPase subunits distinctly associated to three chaperones, one of which is PSMD9 regulating the modules assembly. The PSMD9 ubiquitous regulatory role within the proteasome implies its potential pleiotropic effects within different physio-pathological systems. PSMD9 is known to form a stable subcomplex with PSMC3 and PSMC6, two of the AAA-ATPases, assisting in the assembly of the 20S and 19S particles to form the holo complex.

## Notable Publications

Author	Pubmed ID	Journal	Application
Xuemeng Shi	39601593	J Virol	IF
Yaquan Li	37485655	CNS Neurosci Ther	WB,IHC,IF

## 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

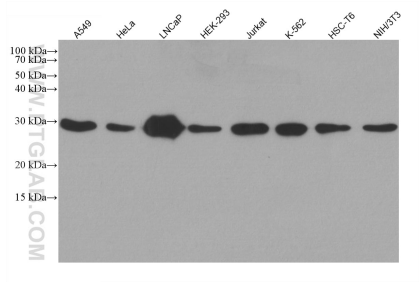
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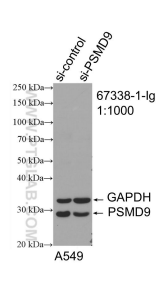
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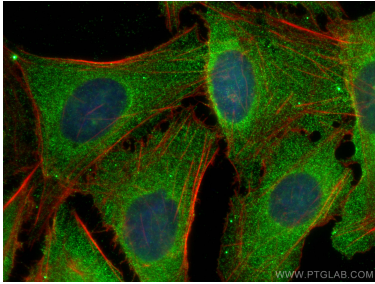
Selected Validation Data



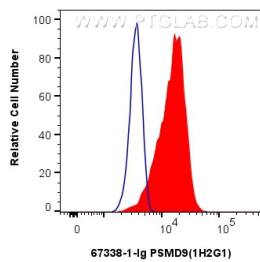
Various lysates were subjected to SDS PAGE followed by western blot with 67338-1-Ig (PSMD9 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



WB result of PSMD9 antibody (67338-1-Ig; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PSMD9 transfected A549 cells.



Immunofluorescent analysis of (4% PFA) fixed U2OS cells using PSMD9 antibody (67338-1-Ig, Clone: 1H2G1) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red).



1x10<sup>6</sup> HeLa cells were intracellularly stained with 0.25 ug PSMD9 Monoclonal antibody (67338-1-Ig, Clone:1H2G1) and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1)(red), or 0.25 ug Mouse IgG1 isotype control Mouse McAb (66360-1-Ig, Clone: 1F8D3) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).