

For Research Use Only

# PSMD9 Monoclonal antibody, PBS Only

Catalog Number: 67338-1-PBS

Featured Product



## Basic Information

Catalog Number:

67338-1-PBS

Size:

1mg/ml

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 A purification

CloneNo.:

1H2G1

## Applications

Tested Applications:

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

Species Specificity:

human, mouse, rat

## 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.

## 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

For technical support and original validation data for this product please contact:

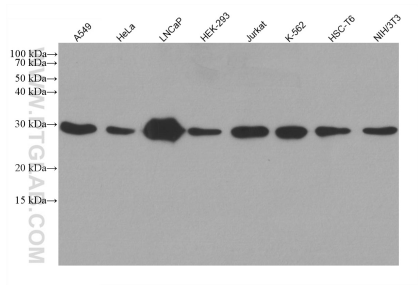
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

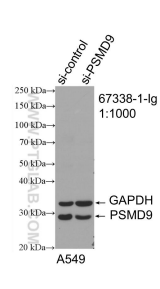
W: [ptgcn.com](http://ptgcn.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

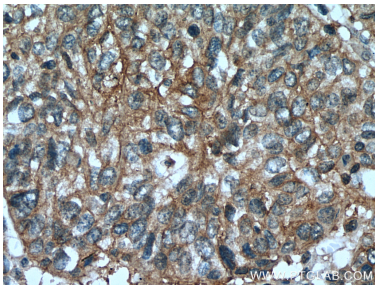
Selected Validation Data



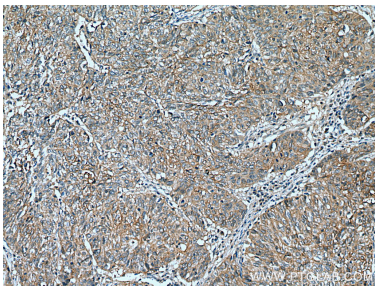
Various lysates were subjected to SDS PAGE followed by western blot with 67338-1-Ig (PSMD9 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 67338-1-PBS in a different storage buffer formulation.



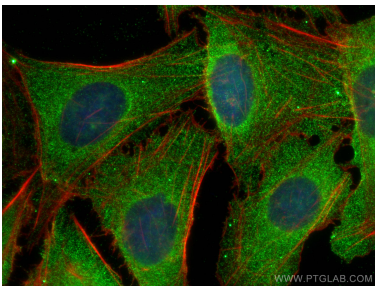
WB result of PSMD9 antibody (67338-1-Ig; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PSMD9 transfected A549 cells. This data was developed using the same antibody clone with 67338-1-PBS in a different storage buffer formulation.



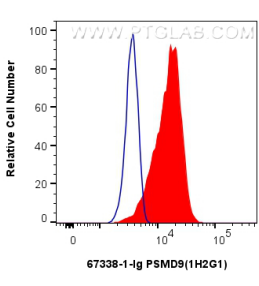
Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 67338-1-Ig (PSMD9 antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 67338-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 67338-1-Ig (PSMD9 antibody) at dilution of 1:800 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 67338-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 67338-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 67338-1-PBS in a different storage buffer formulation.