

PSMA7 Monoclonal antibody

Catalog Number: 67817-1-Ig

Featured Product

1 Publications

Basic Information

Catalog Number:

67817-1-Ig

Concentration:

1000 ug/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG7821

GenBank Accession Number:

BC004427

GeneID (NCBI):

5688

UNIPROT ID:

O14818

Full Name:

proteasome (prosome, macropain)
subunit, alpha type, 7

Calculated MW:

28 kDa

Observed MW:

28-30 kDa

Purification Method:

Protein G purification

CloneNo.:

1F2C6

Recommended Dilutions:

WB: 1:5000-1:50000

IHC: 1:1000-1:4000

IF/ICC: 1:200-1:800

FC (Intra): 0.40 ug per 10⁶ cells in a
100 µl suspension

Applications

Tested Applications:

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

Cited Applications:

WB

Species Specificity:

human, mouse, rat

Cited Species:

human

**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: LNCaP cells, MCF-7 cells, HeLa cells, HEK-293
cells, K-562 cells, Jurkat cells, HSC-T6 cells, PC-12
cells, NIH/3T3 cells, 4T1 cells

IHC: human cervical cancer tissue,

IF/ICC: MCF-7 cells, Caco-2 cells

FC (Intra): HeLa cells,

Background Information

PSMA7 (Proteasome subunit alpha type-7) is also named HSPC and belongs to the peptidase T1A family. It is an α -type subunit of the 20S proteasome core complex and participates in degrading proteins through the ubiquitin-proteasome pathway (UPP) which plays an important role in the regulation of cell proliferation or cell cycle control, transcriptional regulation, immune and stress response, cell differentiation, and apoptosis (PMID: 19442227).

Notable Publications

Author	Pubmed ID	Journal	Application
Qing-Hua Jiao	38173490	Heliyon	WB

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

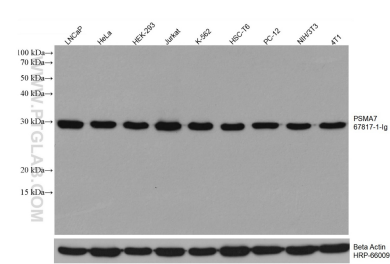
For technical support and original validation data for this product please contact:

T: 4006900926

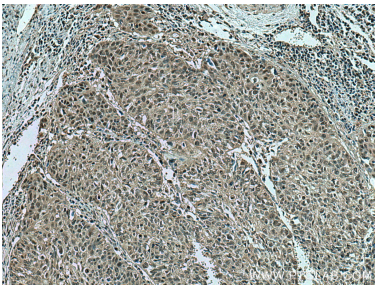
E: Proteintech-CN@ptglab.comW: ptgcn.com

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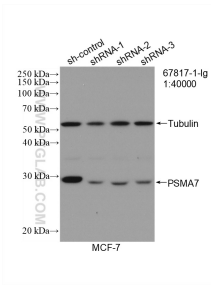
Selected Validation Data



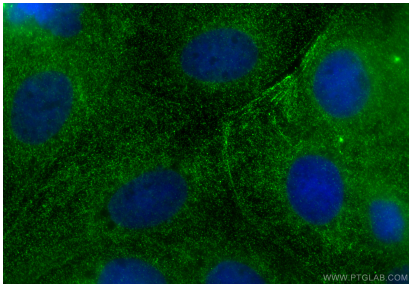
Various lysates were subjected to SDS PAGE followed by western blot with 67817-1-Ig (PSMA7 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Beta Actin Monoclonal antibody (HRP-66009) as loading control.



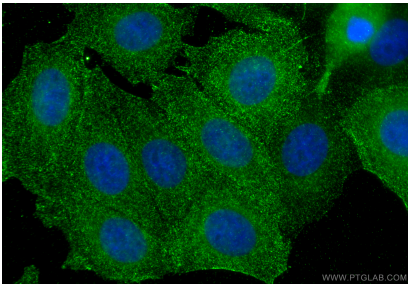
Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 67817-1-Ig (PSMA7 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



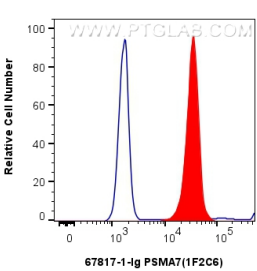
WB result of PSMA7 antibody (67817-1-Ig; 1:40000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PSMA7 transfected MCF-7 cells.



Immunofluorescent analysis of (4% PFA) fixed Caco-2 cells using PSMA7 antibody (67817-1-Ig, Clone: 1F2C6) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1).



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using PSMA7 antibody (67817-1-Ig, Clone: 1F2C6) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1).



1x10⁶ HeLa cells were intracellularly stained with 0.4 ug PSMA7 Monoclonal antibody (67817-1-Ig, Clone:1F2C6) and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1)(red), or 0.4 ug Mouse IgG1 isotype control Mouse McAb (66360-1-Ig, Clone: 1F8D3) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).