

PSMA7 Monoclonal antibody

Catalog Number: 67817-1-Ig

Featured Product

1 Publications

Basic Information

Catalog Number:

67817-1-Ig

Size:

150ul, Concentration: 1000 ug/ml by Nanodrop and 475 ug/ml by Bradford method using BSA as the standard;

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: HeLa 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

*** 20ul sizes contain 0.1% BSA

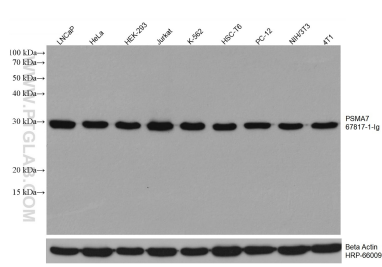
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

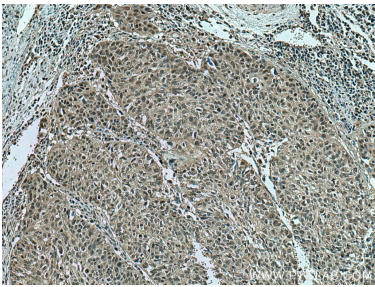
E: proteintech@ptglab.com
W: ptglab.com

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

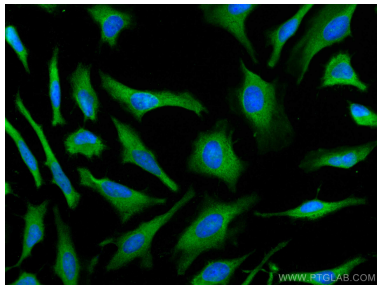
Selected Validation Data



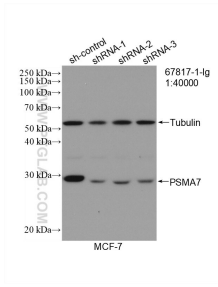
Various lysates were subjected to SDS PAGE followed by western blot with 67817-1-Ig (PSMA7 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Beta Actin Monoclonal antibody (HRP-66009) as loading control.



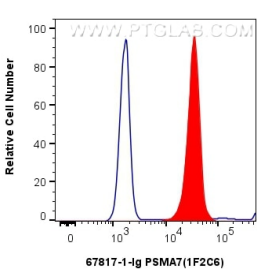
Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 67817-1-Ig (PSMA7 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using PSMA7 antibody (67817-1-Ig, Clone: 1F2C6) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



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.



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).