

For Research Use Only

# PSMA7 Monoclonal antibody

Catalog Number: 67817-1-Ig **Featured Product**



## Basic Information

<b>Catalog Number:</b> 67817-1-Ig	<b>GenBank Accession Number:</b> BC004427	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul , Concentration: 1000 µg/ml by Nanodrop and 475 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 5688	<b>CloneNo.:</b> 1F2C6
<b>Source:</b> Mouse	<b>Full Name:</b> proteasome (prosome, macropain) subunit, alpha type, 7	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:1000-1:4000 IF 1:200-1:800
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 28 kDa	
<b>Immunogen Catalog Number:</b> AG7821	<b>Observed MW:</b> 28-30 kDa	

## Applications

### Tested Applications:

IF, IHC, WB, 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:** 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:** HeLa cells,

## Background Information

PSMA7 (Proteasome subunit alpha type-7) is also named HSPC and belongs to the peptidase T1A family. It is an  $\alpha$ -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).

## Storage

### Storage:

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

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

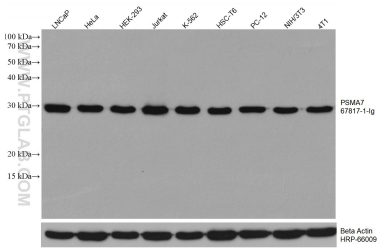
For technical support and original validation data for this product please contact:

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

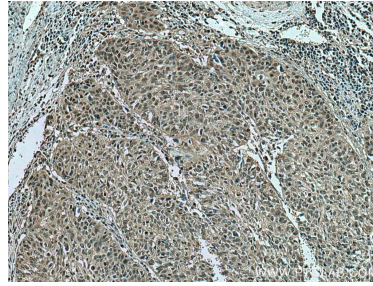
E: proteintech@ptglab.com  
W: ptglab.com

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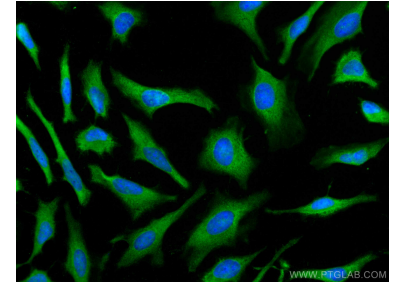
## Selected Validation Data



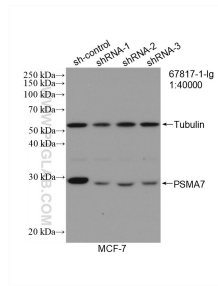
Various lysates were subjected to SDS PAGE followed by western blot with 67817-1-Ig (PSMA7 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Beta Actin Monoclonal antibody (HRP-66009) as loading control.



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).



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.