

For Research Use Only

PSMD11 Polyclonal antibody

Catalog Number: 14786-1-AP

Featured Product

9 Publications



Basic Information

Catalog Number:

14786-1-AP

Size:

150ul, Concentration: 350 ug/ml by Nanodrop and 333 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG6435

GenBank Accession Number:

BC000437

GeneID (NCBI):

5717

UNIPROT ID:

O00231

Full Name:

proteasome (prosome, macropain)
26S subunit, non-ATPase, 11

Calculated MW:

47 kDa

Observed MW:

47 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:250-1:1000

IF/ICC 1:10-1:100

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, IF, IP, CoIP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

Positive Controls:

WB : HeLa cells, MCF-7 cells, mouse testis tissue, rat brain tissue

IP : MCF-7 cells,

IHC : human stomach cancer tissue, human lung tissue, rat lung tissue

IF/ICC : MCF-7 cells,

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

The 26 S proteasome is a 2.5-MDa molecular machine that degrades ubiquitinated proteins in eukaryotic cells. It consists of a proteolytic core particle and two 19 S regulatory particles (RPs) composed of 6 ATPase (RPT) and 13 non-ATPase (RPN) subunits. PSMD11 gene encodes 19S proteasome subunit RPN6. Increased levels of PSMD11 and a corresponding increased assembly of the 26S/30S proteasome is correlated with high proteasome activity. In vitro ectopic expression of PSMD11 is sufficient to increase proteasome assembly and activity. Latest research has implicated PSMD11 in regulation of human embryonic stem cells function.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|-----------------------|-----------|--------------|-------------|
| Zhen Dai | 35253427 | J Med Chem | WB |
| Linlin Zhao | 33517884 | BMC Dev Biol | WB,IF |
| Vidya Sagar Kesireddy | 31431059 | FASEB J | WB |

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

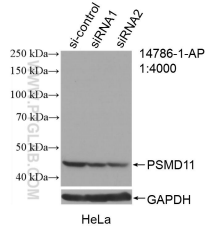
For technical support and original validation data for this product please contact:

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

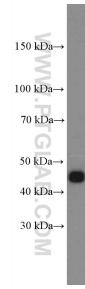
E: proteintech@ptglab.com
W: ptglab.com

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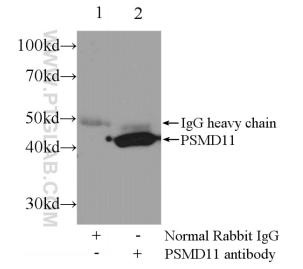
Selected Validation Data



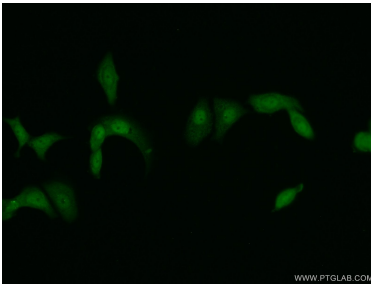
WB result of PSMD11 antibody (14786-1-AP; 1:4000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PSMD11 transfected HeLa cells.



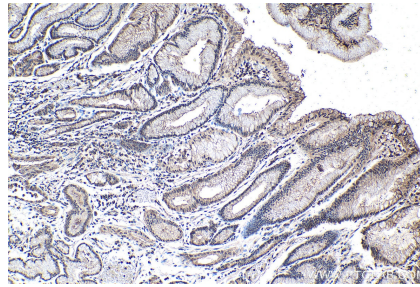
HeLa cells were subjected to SDS PAGE followed by western blot with 14786-1-AP (PSMD11 Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



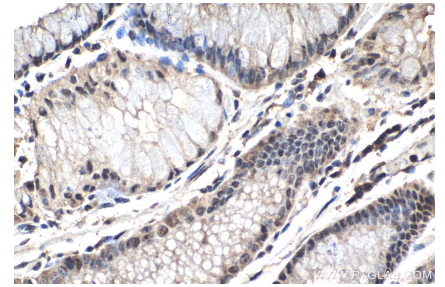
IP result of anti-PSMD11 (IP:14786-1-AP, 3ug; Detection:14786-1-AP 1:500) with MCF-7 cells lysate 2000ug.



Immunofluorescent analysis of MCF-7 cells using 14786-1-AP (PSMD11 antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 14786-1-AP (PSMD11 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 14786-1-AP (PSMD11 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).