

For Research Use Only

# PSMD12 Polyclonal antibody

Catalog Number: 11412-1-AP

Featured Product

2 Publications



## Basic Information

### Catalog Number:

11412-1-AP

### Size:

150ul, Concentration: 700 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG1957

### GenBank Accession Number:

BC019062

### GeneID (NCBI):

5718

### UNIPROT ID:

O00232

### Full Name:

proteasome (prosome, macropain)  
26S subunit, non-ATPase, 12

### Calculated MW:

456 aa, 53 kDa

### Observed MW:

50-55 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:3000

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, ELISA

### Cited Applications:

WB, IHC

### Species Specificity:

human, mouse, rat

### Cited Species:

human

### Positive Controls:

WB : MCF-7 cells, mouse lung tissue, rat lung tissue

IHC : human gliomas tissue,

**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

Proteasome 26S subunit, non-ATPase 12 (PSMD12; also known as RPN5) was first discovered in fission yeast. It is a non-ATPase subunit of the 19S regulator of the 26S proteasome complex, which is involved in regulating the cell cycle, repairing DNA damage, and regulating apoptosis by mediating the internal protein balance through the removal of misfolded proteins or damaged intracellular substructures. In addition, PSMD12 contributes to tumor cell growth and apoptosis in breast cancer. (PMID: 33987398)

## Notable Publications

Author	Pubmed ID	Journal	Application
Xinna Du	32222279	Biochem Biophys Res Commun	WB
Zhongyong Wang	33987398	Ann Transl Med	WB,IHC

## 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

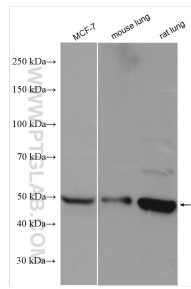
For technical support and original validation data for this product please contact:

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

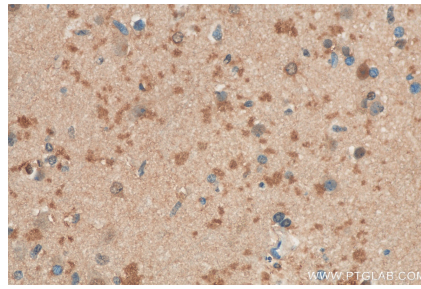
E: proteintech@ptglab.com  
W: ptglab.com

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 11412-1-AP (PSMD12 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 11412-1-AP (PSMD12 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).