

# PSMD2 Polyclonal antibody

Catalog Number: 14748-1-AP

Featured Product

14 Publications

## Basic Information

## Catalog Number:

14748-1-AP

## Size:

400 µg/ml

## Source:

Rabbit

## Isotype:

IgG

## Immunogen Catalog Number:

AG6484

## GenBank Accession Number:

BC002368

## GeneID (NCBI):

5708

## UNIPROT ID:

Q13200

## Full Name:

proteasome (prosome, macropain)  
26S subunit, non-ATPase, 2

## Calculated MW:

100 kDa

## Observed MW:

100 kDa

## Purification Method:

Antigen affinity purification

## Recommended Dilutions:

WB 1:1000-1:4000

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

IHC 1:50-1:500

## Applications

## Tested Applications:

WB, IP, IHC, ELISA

## Cited Applications:

WB, IHC, IF, IP, CoIP

## Species Specificity:

human, mouse, rat

## Cited Species:

human, mouse

**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**: SKOV-3 cells, HeLa cells, K-562 cells, human heart  
tissue, mouse skeletal muscle tissue, PC-3 cells, A431  
cells, HL-60 cells, mouse heart tissue, rat heart tissue

**IP**: K-562 cells,

**IHC**: human breast cancer tissue,

## Background Information

Tumor necrosis factor type 1 receptor-associated protein 2 (TRAP2), encoded by PSMD2 gene, is a non-ATPase regulatory subunit of the 26 proteasome which is involved in the ATP-dependent degradation of ubiquitinated proteins. The 26S proteasome is a multicatalytic proteinase complex with a highly ordered structure composed of 2 complexes, a 20S core and a 19S regulator. The 19S regulator is composed of a base, which contains 6 ATPase subunits and 2 non-ATPase subunits, and a lid, which contains up to 10 non-ATPase subunits. TRAP2 may also participate in the TNF signalling pathway since it interacts with the tumor necrosis factor type 1 receptor.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yanjie Tan	31703613	BMC Mol Biol	WB
Chunyan Gu	34991674	J Exp Clin Cancer Res	WB, CoIP
Hong-Zhong Zhou	31842909	Cell Commun Signal	WB, CoIP

## 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

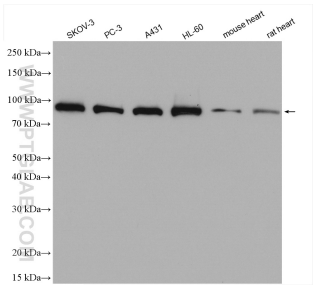
For technical support and original validation data for this product please contact:

T: 4006900926

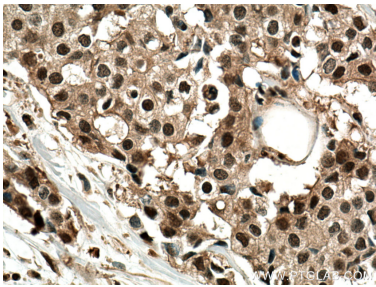
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

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

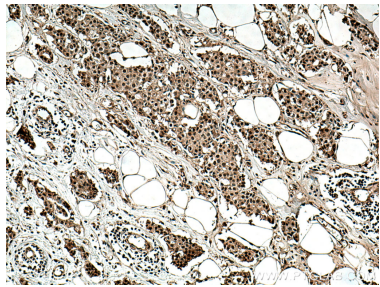
Selected Validation Data



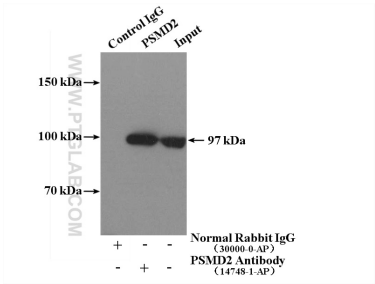
SKOV-3 cells were subjected to SDS PAGE followed by western blot with 14748-1-AP (PSMD2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 14748-1-AP (PSMD2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 14748-1-AP (PSMD2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-PSMD2 (IP:14748-1-AP, 4ug; Detection:14748-1-AP 1:1000) with K-562 cells lysate 3320ug.