

For Research Use Only

# PSMD14/POH1 Polyclonal antibody



Catalog Number: 12059-1-AP

Featured Product

11 Publications

## Basic Information

**Catalog Number:**

12059-1-AP

**Size:**

750 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG2694

**GenBank Accession Number:**

BC009524

**GeneID (NCBI):**

10213

**UNIPROT ID:**

O00487

**Full Name:**

proteasome (prosome, macropain)  
26S subunit, non-ATPase, 14

**Calculated MW:**

35 kDa

**Observed MW:**

35 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:1000

IHC 1:20-1:200

IF 1:200-1:800

## Applications

**Tested Applications:**

IF/ICC, IHC, WB, ELISA

**Cited Applications:**

WB, IF, IHC

**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: A431 cells, rat heart tissue, K-562 cells

IHC: human colon cancer tissue,

IF: A375 cells,

## Background Information

The PSMD14 (POH1, also known as Rpn11/MPR1/S13/CepP1) protein is a metalloprotease component of the 26S proteasome that specifically cleaves 'Lys-63'-linked polyubiquitin chains. The 26S proteasome is involved in the ATP-dependent degradation of ubiquitinated proteins. PSMD14 is highly expressed in the heart and skeletal muscle. In carcinoma cell lines, down-regulation of PSMD14 by siRNA transfection had a considerable impact on cell viability causing cell arrest in the G0-G1 phase, ultimately leading to senescence.

## Notable Publications

| Author      | Pubmed ID | Journal                            | Application |
|-------------|-----------|------------------------------------|-------------|
| Zitong Zhao | 36328147  | Biochim Biophys Acta Mol Basis Dis | WB,IHC      |
| Boshi Wang  | 26510456  | Nat Commun                         | WB, IHC, IF |
| Guoqing Luo | 28535005  | Mol. Med Rep                       | 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

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

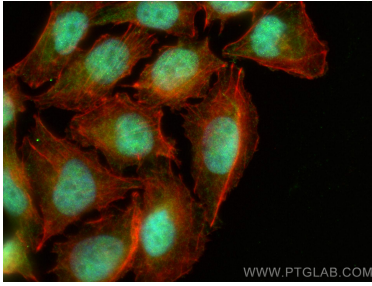
T: 4006900926

E: Proteintech-CN@ptglab.com

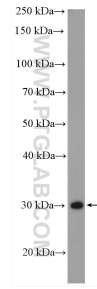
W: ptgcn.com

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

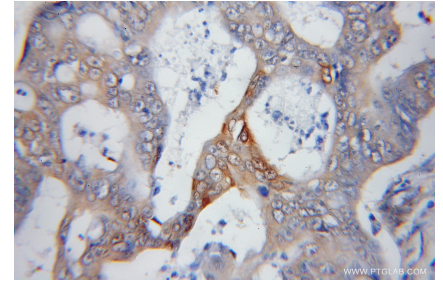
## Selected Validation Data



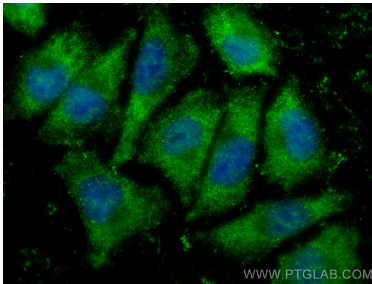
Immunofluorescent analysis of (4% PFA) fixed A375 cells using PSMD14/POH1 antibody (12059-1-AP) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



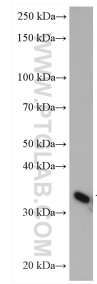
A431 cells were subjected to SDS PAGE followed by western blot with 12059-1-AP (PSMD14/POH1 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer using 12059-1-AP (PSMD14/POH1 antibody) at dilution of 1:50 (under 10x lens).



Immunofluorescent analysis of (-20°C Ethanol) fixed A375 cells using PSMD14/POH1 antibody (12059-1-AP) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



rat heart tissue were subjected to SDS PAGE followed by western blot with 12059-1-AP (PSMD14/POH1 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.