

For Research Use Only

# PSME2 Polyclonal antibody

Catalog Number: 12937-2-AP

3 Publications



## Basic Information

### Catalog Number:

12937-2-AP

### Size:

150ul, Concentration: 550 ug/ml by Nanodrop and 333 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG3986

### GenBank Accession Number:

BC019885

### GeneID (NCBI):

5721

### UNIPROT ID:

Q9UL46

### Full Name:

proteasome (prosome, macropain) activator subunit 2 (PA28 beta)

### Calculated MW:

239 aa, 27 kDa

### Observed MW:

27 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

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

IHC 1:1000-1:4000

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse

### Positive Controls:

IP: MCF-7 cells,

IHC: human kidney 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 principal function of the proteasome is targeted degradation of intracellular proteins. Activity of the 20S proteasome is controlled by regulatory complexes that bind to the ends of the cylindrical proteasome. 11S regulator (REG or PA28), is a complex of 28 kDa subunits that is thought to activate proteasomes toward the production of antigenic peptides. Human PSME1 and PSME2 genes encode the two proteasome activators PA28 alpha and beta, respectively, which have been implicated in antigen processing for loading class I MHC molecules. The PA28 activator complex enhances the generation of class I binding peptides by altering the cleavage pattern of the proteasome.

## Notable Publications

Author	Pubmed ID	Journal	Application
Qing Li	36586643	Pharmacol Res	WB
Cen Wu	36583022	Front Genet	IHC
Brooke R D'Arcy	36854011	PLoS Biol	IF

## 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

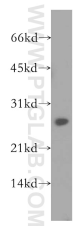
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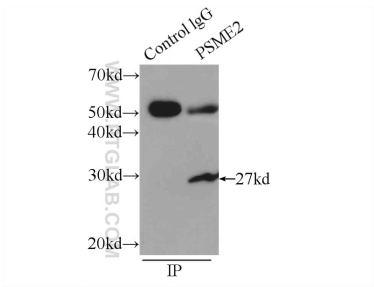
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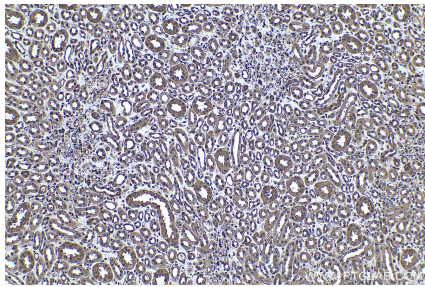
Selected Validation Data



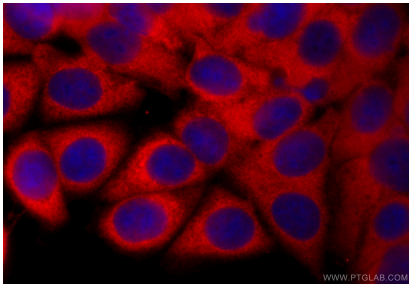
MCF7 cells were subjected to SDS PAGE followed by western blot with 12937-2-AP (PSME2 antibody) at dilution of 1:0 incubated at room temperature for 1.5 hours.



IP result of anti-PSME2 (IP:12937-2-AP, 4ug; Detection:12937-2-AP 1:500) with MCF-7 cells lysate 2000ug.



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 12937-2-AP (PSME2 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 MCF-7 cells using PSME2 antibody (12937-2-AP) at dilution of 1:400 and CoraLite®594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4).