

For Research Use Only

# PSMB7 Polyclonal antibody

Catalog Number: 30283-1-AP



## Basic Information

<b>Catalog Number:</b> 30283-1-AP	<b>GenBank Accession Number:</b> BC000509	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 550 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 5695	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>Full Name:</b> proteasome (prosome, macropain) subunit, beta type, 7	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 29.9 kDa	
<b>Immunogen Catalog Number:</b> AG32201	<b>Observed MW:</b> 30 kDa	

## Applications

### Tested Applications:

IHC, WB, ELISA

### Species Specificity:

Human, mouse, rat

**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 : HEK-293 cells, MCF-7 cells, HepG2 cells, mouse skeletal muscle tissue, rat skeletal muscle tissue, mouse kidney tissue, rat kidney tissue

IHC : human colon cancer tissue,

## Background Information

The proteasome is a multicatalytic proteinase complex with a highly ordered ring-shaped 20S core structure. PSMB7 protein is a member of the proteasome B-type family, also known as the T1B family, and is a 20S core beta subunit in the proteasome. Expression of this catalytic subunit is downregulated by gamma interferon, and proteolytic processing is required to generate a mature subunit. Component of the 20S core proteasome complex are involved in the proteolytic degradation of most intracellular proteins. PSMB7 displays a trypsin-like activity. (PMID:15244466, PMID:27176742, PMID: 8610016)

## 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**

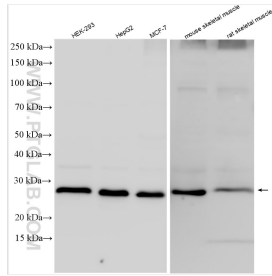
For technical support and original validation data for this product please contact:

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

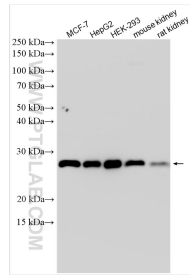
E: proteintech@ptglab.com  
W: ptglab.com

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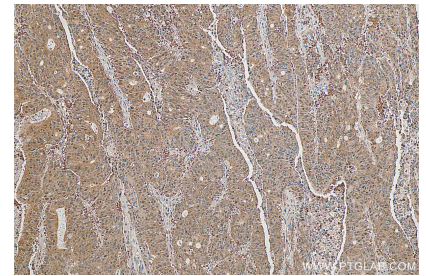
## Selected Validation Data



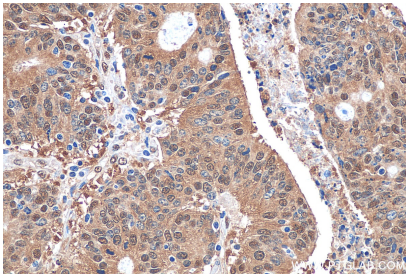
Various lysates were subjected to SDS PAGE followed by western blot with 30283-1-AP (PSMB7 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 30283-1-AP (PSMB7 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 30283-1-AP (PSMB7 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 30283-1-AP (PSMB7 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).