

For Research Use Only

# PSMA5 Polyclonal antibody

Catalog Number: 30580-1-AP



## Basic Information

<b>Catalog Number:</b> 30580-1-AP	<b>GenBank Accession Number:</b> NM_002790	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 400 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 5686	<b>Recommended Dilutions:</b> WB 1:500-1:3000 IHC 1:50-1:500 IF 1:200-1:800
<b>Source:</b> Rabbit	<b>Full Name:</b> proteasome (prosome, macropain) subunit, alpha type, 5	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 26 kDa	
<b>Immunogen Catalog Number:</b> AG30703	<b>Observed MW:</b> 28 kDa	

## Applications

### Tested Applications:

IF, IHC, WB, ELISA

### Species Specificity:

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 : HeLa cells, HCT 116 cells, HepG2 cells

IHC : mouse testis tissue,

IF : HeLa cells,

## Background Information

Proteasome subunit alpha type-5(PSMA5) is a component of the 20S core proteasome complex involved in the proteolytic degradation of most intracellular proteins. This complex plays numerous essential roles within the cell by associating with different regulatory particles. It binds to two 19S regulatory particles(RP) to form the 26S proteasome, an ATP-dependent multisubunit protease that degrades polyubiquitinated proteins into small peptides. (PMID: 26661102)

## 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

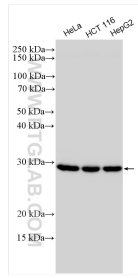
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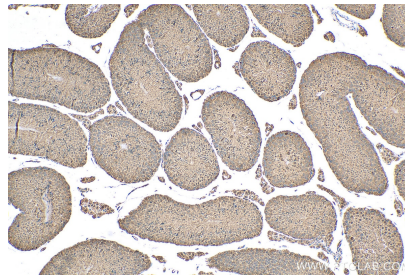
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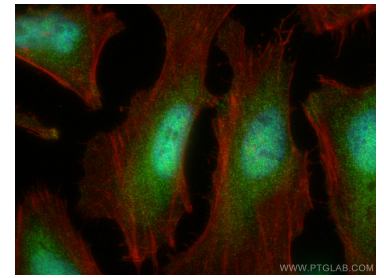
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 30580-1-AP (PSMA5 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 30580-1-AP (PSMA5 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using PSMA5 antibody (30580-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).