

For Research Use Only

# PSMA2 Monoclonal antibody

Catalog Number: 68240-1-Ig



## Basic Information

<b>Catalog Number:</b> 68240-1-Ig	<b>GenBank Accession Number:</b> BC047697	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 1000 µg/ml	<b>GeneID (NCBI):</b> 5683	<b>CloneNo.:</b> 2H4A10
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P25787	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IHC 1:50-1:500
<b>Isotype:</b> IgG1	<b>Full Name:</b> proteasome (prosome, macropain) subunit, alpha type, 2	
<b>Immunogen Catalog Number:</b> AG5837	<b>Calculated MW:</b> 26 kDa	
	<b>Observed MW:</b> 26 kDa	

## Applications

### Tested Applications:

IHC, WB, ELISA

### Species Specificity:

Human, mouse, pig, 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:** U2OS cells, A431 cells, HEK-293 cells, HepG2 cells, HSC-T6 cells, NIH/3T3 cells, pig heart tissue, rat heart tissue, mouse heart tissue

**IHC:** human cervical cancer tissue,

## Background Information

PSMA2 (Proteasome subunit alpha type-2) is the essential subunit that contributes to the complete assembly of 20S proteasome complex, involved in the proteolytic degradation of most intracellular proteins. It is required in spermatogenesis and generation of a subset of MHC class I-presented antigenic peptides (PMID: 34711951, PMID: 27342858). Dysregulation of PSMA2 degradation leads to tumorigenesis including cervical cancer (PMID:33684886).

## 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:

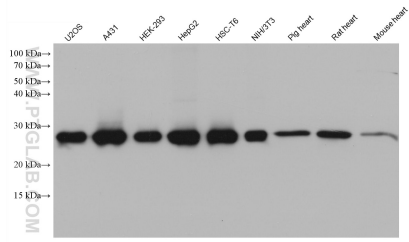
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

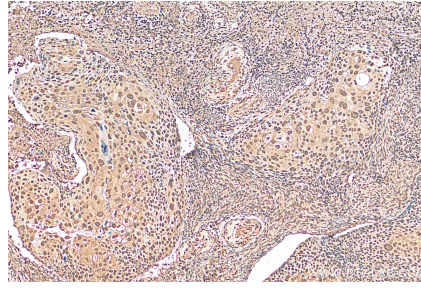
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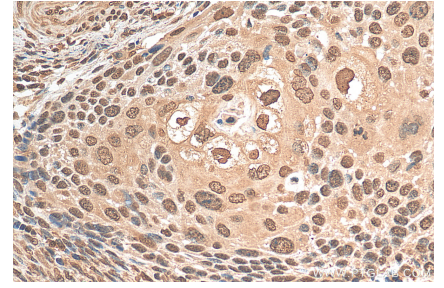
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68240-1-Ig (PSMA2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 68240-1-Ig (PSMA2 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 cervical cancer tissue slide using 68240-1-Ig (PSMA2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).