

For Research Use Only

# PSMB10 Monoclonal antibody

Catalog Number: 66403-1-Ig



## Basic Information

<b>Catalog Number:</b> 66403-1-Ig	<b>GenBank Accession Number:</b> BC017198	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1200 ug/ml	<b>GeneID (NCBI):</b> 5699	<b>CloneNo.:</b> 1G8C1
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P40306	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IHC 1:150-1:600 IF/ICC 1:400-1:1600
<b>Isotype:</b> IgG2a	<b>Full Name:</b> proteasome (prosome, macropain) subunit, beta type, 10	
<b>Immunogen Catalog Number:</b> AG8835	<b>Calculated MW:</b> 273 aa, 29 kDa	
	<b>Observed MW:</b> 28 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, ELISA

**Species Specificity:**  
human, mouse, rat, pig

**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:** Raji cells, Ramos cells, U-937 cells, rat thymus tissue, human spleen tissue, pig thymus tissue

**IHC:** human liver cancer tissue, mouse kidney tissue

**IF/ICC:** Jurkat cells,

## Background Information

SMB10(Proteasome subunit beta type-10) is also named as LMP10, MECL1. It belongs to the peptidase T1B family and is a multicatalytic proteinase complex which is characterized by its ability to cleave peptides with Arg, Phe, Tyr, Leu, and Glu adjacent to the leaving group at neutral or slightly basic pH.

## 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:

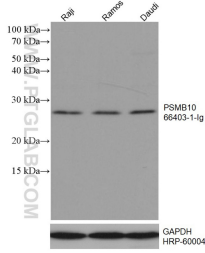
T: 4006900926

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

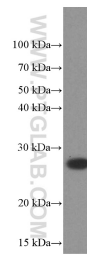
W: [ptgcn.com](http://ptgcn.com)

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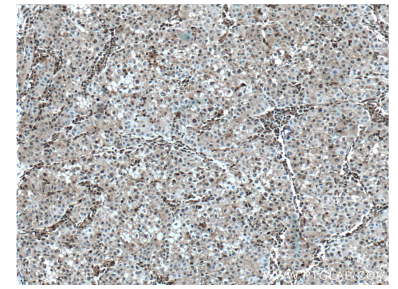
## Selected Validation Data



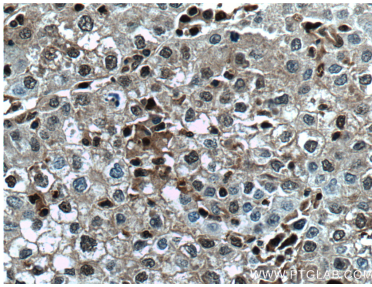
Various lysates were subjected to SDS PAGE followed by western blot with 66403-1-Ig (PSMB10 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



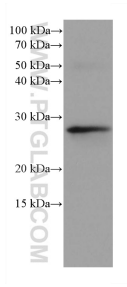
Raji cells were subjected to SDS PAGE followed by western blot with 66403-1-Ig (PSMB10 Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



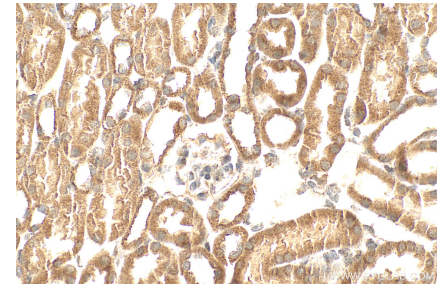
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66403-1-Ig (PSMB10 antibody) at dilution of 1:300 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



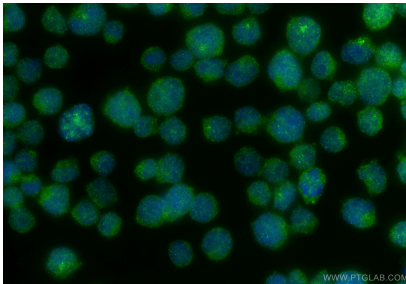
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66403-1-Ig (PSMB10 antibody) at dilution of 1:300 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



rat thymus tissue were subjected to SDS PAGE followed by western blot with 66403-1-Ig (PSMB10 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 66403-1-Ig (PSMB10 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed Jurkat cells using PSMB10 antibody (66403-1-Ig, Clone: 1G8C1) at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1).