

For Research Use Only

# PSMB9 Recombinant monoclonal antibody, PBS Only (Capture)

Catalog Number: 87013-1-PBS



## Basic Information

<b>Catalog Number:</b> 87013-1-PBS	<b>GenBank Accession Number:</b> BC065513	<b>Purification Method:</b> Protein A purification
<b>Source:</b> Rabbit	<b>GeneID (NCBI):</b> 5698	<b>CloneNo.:</b> 252148A4
<b>Isotype:</b> IgG	<b>UNIPROT ID:</b> P28065	
<b>Immunogen Catalog Number:</b> AG6048	<b>Full Name:</b> proteasome (prosome, macropain) subunit, beta type, 9 (large multifunctional peptidase 2)	
	<b>Calculated MW:</b> 23 kDa	
	<b>Observed MW:</b> 20-23 kDa	

## Applications

**Tested Applications:**  
WB, Cytometric bead array, Indirect ELISA

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

## Background Information

PSMB9, also named as LMP2, PSMB6i and RING12, belongs to the peptidase T1B family. The proteasome is an essential component of the cellular protein degradation machinery. It can be isolated as a 20 S particle containing more than 15 different subunits ranging in molecular masses from 20-35 kDa. The proteasome can also be isolated as part of a higher molecular mass particle of 26 S which has been shown to rapidly degrade both ubiquitinated and nonubiquitinated proteins in a ATP-dependent fashion. Replacement of PSMB6 by PSMB9 increases the capacity of the immunoproteasome to cleave model peptides after hydrophobic and basic residues. High expression of PSMB9 associated with the poor prognosis of patients with NPC. (PMID: 1429565)

## Storage

**Storage:**  
Store at -80°C.  
**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

**Storage Buffer:**  
PBS only, pH7.3

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

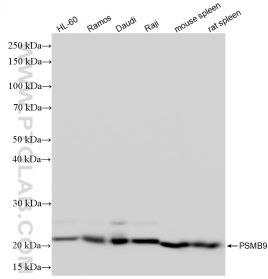
T: 4006900926

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

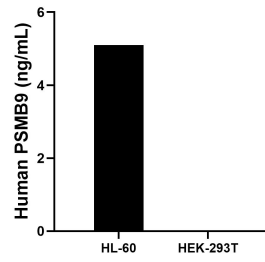
W: [ptgcn.com](http://ptgcn.com)

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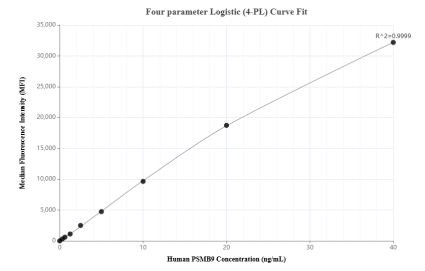
## Selected Validation Data



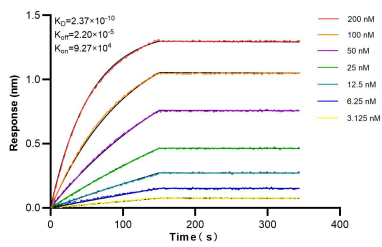
Various lysates were subjected to SDS PAGE followed by western blot with 87013-1-RR (PSMB9 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 87013-1-PBS in a different storage buffer formulation.



The mean PSMB9 concentration was determined to be 5.1 ng/mL in HL-60 cell extract based on a 1.3 mg/mL extract load. HEK-293T cell extract were served as a negative control.



Cytometric bead array standard curve of MP02846-1, PSMB9 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 87013-1-PBS. Detection antibody: 87013-3-PBS. Standard: Ag6048. Range: 0.312-40 ng/mL.



Bi-layer interferometry (BLI) kinetic assays of 87013-1-RR against Human PSMB9 were performed. The affinity constant is 0.237 nM.