

For Research Use Only

# PSMB9 Recombinant monoclonal antibody

Catalog Number:87013-1-RR



## Basic Information

<b>Catalog Number:</b> 87013-1-RR	<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>Recommended Dilutions:</b> WB: 1:5000-1:50000
<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

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : HL-60 cells, Ramos cells, Daudi cells, Raji cells, mouse spleen tissue, rat spleen tissue
<b>Species Specificity:</b> 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 -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

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

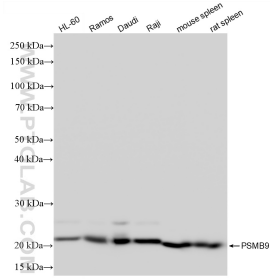
T: 4006900926

E: Proteintech-CN@ptglab.com

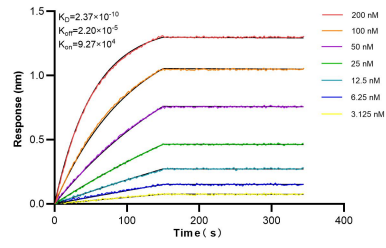
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## Selected Validation Data



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.



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