For Research Use Only

PSMB9 Recombinant monoclonal antibody, PBS Only (Capture)

Catalog Number:87013-1-PBS

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
87013-1-PBS

Size:
100ug , Concentration: 1 mg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG6048

GenBank Accession Number:
BC065513

GeneID (NCBI):
5698

UNIPROT ID:
P28065

Full Name:
proteasome (prosome, macropain) subunit, beta type, 9 (large multifunctional peptidase 2)

Calculated MW:
23 kDa

Observed MW:
20-23 kDa

Purification Method:
Protein A purification

CloneNo.:
252148A4

Applications

Tested Applications:
WB, Cytometric bead array, Indirect ELISA

Species Specificity:
human, mouse, rat

Product Information

87013-1-PBS targets PSMB9 as part of a matched antibody pair:

MP02846-1: 87013-1-PBS capture and 87013-3-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications.Antibody use should be optimized by the end user for each application and assay.

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.
Storage Buffer:
PBS only, pH7.3

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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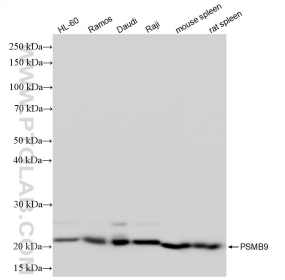
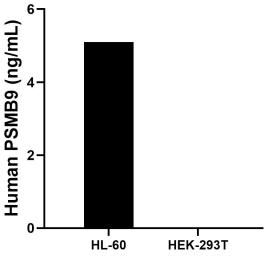
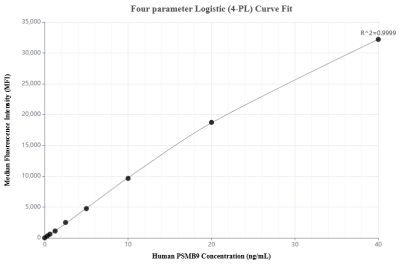
Selected Validation Data



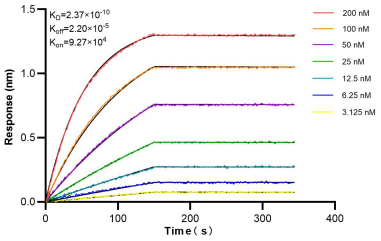
Various lysates were subjected to SDS PAGE followed by western blot with 87013-1-RR (PSMB9 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 87013-1-PBS in a different storage buffer formulation.



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.



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