

For Research Use Only

PSMD14/POH1 Recombinant antibody, PBS Only (Capture/Detector)

Catalog Number: 84767-3-PBS



Basic Information

Catalog Number: 84767-3-PBS	GenBank Accession Number: BC009524	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 10213	CloneNo.: 242160E7
Source: Rabbit	UNIPROT ID: O00487	
Isotype: IgG	Full Name: proteasome (prosome, macropain) 26S subunit, non-ATPase, 14	
Immunogen Catalog Number: AG2694	Calculated MW: 35 kDa	
	Observed MW: 33 kDa	

Applications

Tested Applications:
WB, IHC, IF/ICC, Cytometric bead array, Sandwich
ELISA, Indirect ELISA, Sample test

Species Specificity:
human, mouse

Product Information

84767-3-PBS targets PSMD14/POH1 as part of a matched antibody pair:

MP01566-1: 84767-3-PBS capture and 84767-2-PBS detection (validated in Cytometric bead array)

MP01566-2: 84767-3-PBS capture and 84767-1-PBS detection (validated in Cytometric bead array)

MP01566-3: 84767-1-PBS capture and 84767-3-PBS detection (validated in Sandwich ELISA)

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

The PSMD14 (POH1, also known as Rpn11/MPR1/S13/CepP1) protein is a metalloprotease component of the 26S proteasome that specifically cleaves 'Lys-63'-linked polyubiquitin chains. The 26S proteasome is involved in the ATP-dependent degradation of ubiquitinated proteins. PSMD14 is highly expressed in the heart and skeletal muscle. In carcinoma cell lines, down-regulation of PSMD14 by siRNA transfection had a considerable impact on cell viability causing cell arrest in the G0-G1 phase, ultimately leading to senescence.

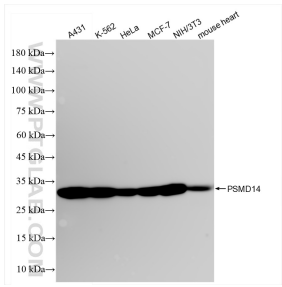
Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS Only

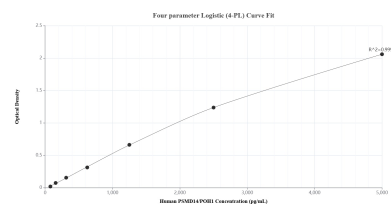
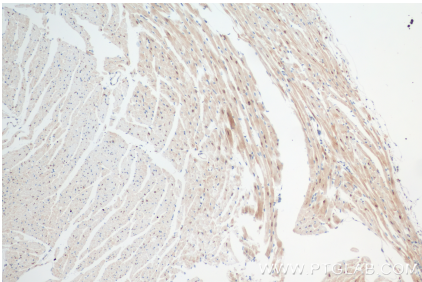
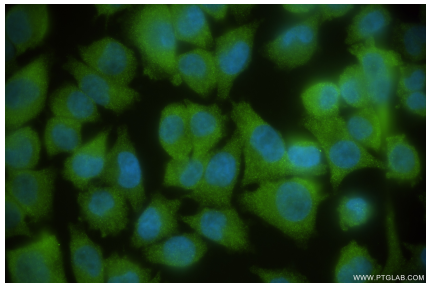
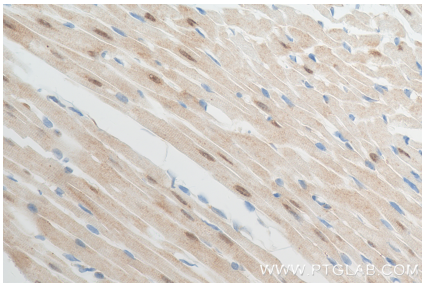
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

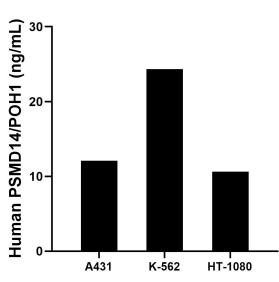
Selected Validation Data



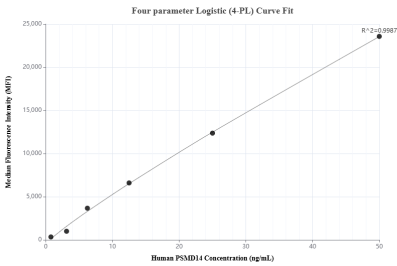
Various lysates were subjected to SDS PAGE followed by western blot with 84767-3-RR (PSMD14/POH1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84767-3-PBS in a different storage buffer formulation.



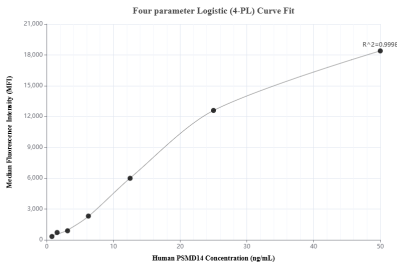
Sandwich ELISA standard curve of MP01566-3, Human PSMD14/POH1 Recombinant Matched Antibody Pair - PBS only. 84767-1-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag2694. 84767-3-PBS was HRP conjugated as the detection antibody. Range: 78.1-5000 pg/mL.



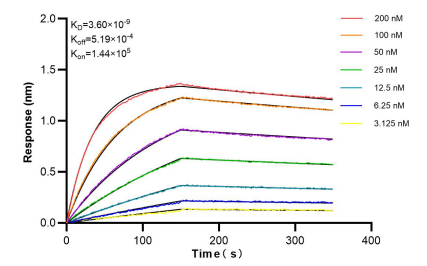
The mean PSMD14/POH1 concentration was determined to be 12.08 ng/mL in A431 cell extract based on a 1.30 mg/mL extract load, 24.32 ng/mL in K-562 cell extract based on a 2.40 mg/mL extract load and 10.64 ng/mL in HT-1080 cell extract based on a 1.40 mg/mL extract load.



Cytometric bead array standard curve of MP01566-1, PSMD14/POH1 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 84767-3-PBS. Detection antibody: 84767-2-PBS. Standard: Ag2694. Range: 0.781-50 ng/mL.



Cytometric bead array standard curve of MP01566-2, PSMD14/POH1 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 84767-3-PBS. Detection antibody: 84767-1-PBS. Standard: Ag2694. Range: 0.781-50 ng/mL.



Bi-layer interferometry (BLI) kinetic assays of 84767-3-RR against Human PSMD14/POH1 were performed. The affinity constant is 3.60 nM.