

For Research Use Only

PTPMT1 Recombinant monoclonal antibody, PBS Only

Catalog Number: 87082-1-PBS



Basic Information

Catalog Number: 87082-1-PBS	GenBank Accession Number: BC020242	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 114971	CloneNo.: 252195D2
Source: Rabbit	UNIPROT ID: Q8WUK0	
Isotype: IgG	Full Name: protein tyrosine phosphatase, mitochondrial 1	
Immunogen Catalog Number: AG2063	Calculated MW: 201 aa, 23 kDa	
	Observed MW: 16 kDa	

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
human, mouse, rat

Background Information

Protein Tyrosine Phosphatase localized to the Mitochondrial 1 (PTPMT1) is a highly conserved, dual-specific phosphatase that resides on the matrix-facing side of the inner mitochondrial membrane (IMM). PTPMT1 is a mitochondrial phosphatase and a vital regulator of mitochondrial activities. Current work points to roles for PTPMT1 in the regulation of mitochondrial respiration, dynamics, and ultrastructure through the modulation of pyruvate importation, the tuning of TCA cycle activity, and the synthesis of cardiolipin. PTPMT1 is highly expressed in pancreatic b cells, whose mitochondria have the important function of coupling glucose metabolism to the secretion of insulin. (PMID: 16337125, PMID: 16061174, PMID: 33335799)

Storage

Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

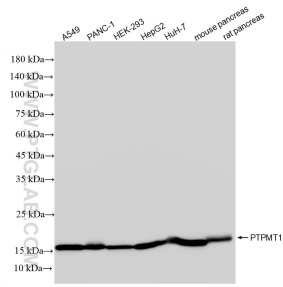
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

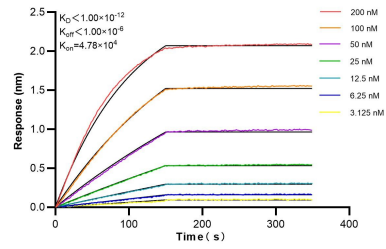
E: proteintech@ptglab.com
W: ptglab.com

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 87082-1-RR (PTPMT1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 87082-1-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 87082-1-RR against Human PTTPM1 were performed. The affinity constant is below 1 pM.