

For Research Use Only

TPK1 Recombinant monoclonal antibody, PBS Only

Catalog Number:86878-1-PBS



Basic Information

Catalog Number: 86878-1-PBS	GenBank Accession Number: BC014552	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 27010	CloneNo.: 251914G4
Source: Rabbit	UNIPROT ID: Q9H3S4	
Isotype: IgG	Full Name: thiamin pyrophosphokinase 1	
Immunogen Catalog Number: AG1404	Calculated MW: 28 kDa	
	Observed MW: 28 kDa	

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
human, mouse, rat

Background Information

TPK1(Thiamin pyrophosphokinase 1) is also named as PP20(placental protein 20) and belongs to the thiamine pyrophosphokinase family. It is a cellular enzyme involved in the regulation of thiamine metabolism and catalyzes the conversion of thiamine, a form of vitamin B1, to thiamine pyrophosphate (TDP, or TPP). There is no difference in TPK1 expression in cultured fibroblasts from normal subjects or from patients with thiamine-responsive megaloblastic anemia(PMID:11342111). It can exist as a dimer(PMID:21552434). Defects in TPK1 are the cause of thiamine metabolism dysfunction syndrome type 5, episodic encephalopathy type (THMD5).

Storage

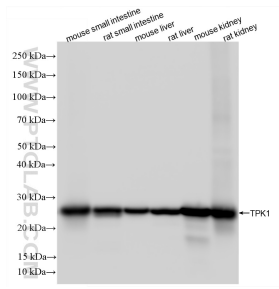
Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

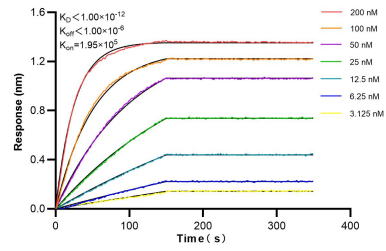
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com
W: ptglab.com

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 86878-1-RR (TPK1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86878-1-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 86878-1-RR against Human TPK1 were performed. The affinity constant is below 1 pM.