

For Research Use Only

TPK1 Recombinant monoclonal antibody

Catalog Number:86878-1-RR



Basic Information

Catalog Number: 86878-1-RR	GenBank Accession Number: BC014552	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 27010	CloneNo.: 251914G4
Isotype: IgG	UNIPROT ID: Q9H3S4	Recommended Dilutions: WB: 1:5000-1:50000
Immunogen Catalog Number: AG1404	Full Name: thiamin pyrophosphokinase 1	
	Calculated MW: 28 kDa	
	Observed MW: 28 kDa	

Applications

Tested Applications:
WB, ELISA

Species Specificity:
human, mouse, rat

Positive Controls:

WB : mouse small intestine tissue, SH-SY5Y cells, rat small intestine tissue, mouse liver tissue, rat liver tissue, mouse kidney tissue, rat kidney tissue

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 -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:

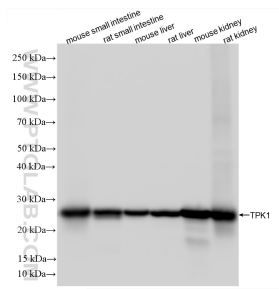
T: 4006900926

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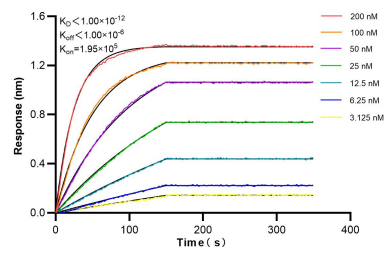
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Selected Validation Data



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.



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