

For Research Use Only

PKLR Recombinant monoclonal antibody, PBS Only (Detector)

Catalog Number: 86485-1-PBS



Basic Information

Catalog Number: 86485-1-PBS	GenBank Accession Number: BC025737	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 5313	CloneNo.: 251231F12
Isotype: IgG	UNIPROT ID: P30613	
Immunogen Catalog Number: AG17933	Full Name: pyruvate kinase, liver and RBC	
	Calculated MW: 574 aa, 62 kDa	
	Observed MW: 58-62 kDa	

Applications

Tested Applications:
WB, Sandwich ELISA, Indirect ELISA

Species Specificity:
human

Background Information

PKLR (Pyruvate kinase isozymes R/L) is also named as PK1, PKL, which is a glycolytic enzyme that catalyzes the transphosphorylation from phosphoenolpyruvate (PEP) to ADP, yielding pyruvate and ATP. It is the last step of the glycolytic pathway and is essentially irreversible. It belongs to the pyruvate kinase family and there are 4 isozymes of pyruvate kinase in mammals: L, R, M1 and M2. L type is major isozyme in the liver, R is found in red cells, M1 is the main form in muscle, heart and brain, and M2 is found in early fetal tissues. Defects in PKLR are the cause of pyruvate kinase hyperactivity (PKHYP) and pyruvate kinase deficiency of red cells (PKRD). It can form a homotetramer (PMID:11960989).

Storage

Storage:
Store at -80°C.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS only, pH7.3

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

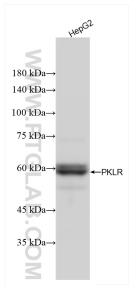
T: 4006900926

E: Proteintech-CN@ptglab.com

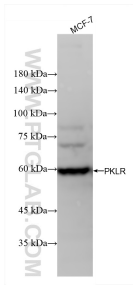
W: ptgcn.com

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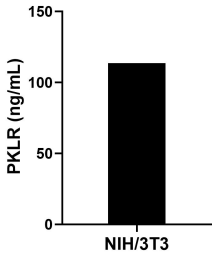
Selected Validation Data



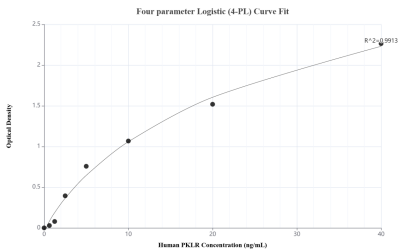
HepG2 cells were subjected to SDS PAGE followed by western blot with 86485-1-RR (PKLR antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86485-1-PBS in a different storage buffer formulation.



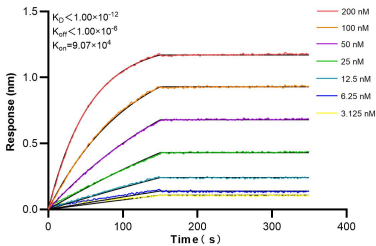
MCF-7 cells were subjected to SDS PAGE followed by western blot with 86485-1-RR (PKLR antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86485-1-PBS in a different storage buffer formulation.



The mean PKLR concentration was determined to be 113.54 ng/mL in NIH/3T3 cell extract based on a 1.20 mg/mL extract load.



Sandwich ELISA standard curve of MP02639-1, Human PKLR Recombinant Matched Antibody Pair - PBS only. 86485-2-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag17933. 86485-1-PBS was HRP conjugated as the detection antibody. Range: 0.625-40 ng/mL.



Biolayer interferometry (BLI) kinetic assays of 86485-1-RR against Human PKLR were performed. The affinity constant is below 1 pM.