

For Research Use Only

# PKLR Polyclonal antibody

Catalog Number: 17580-1-AP

2 Publications



## Basic Information

Catalog Number:

17580-1-AP

Concentration:

500 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG11096

GenBank Accession Number:

BC025737

GeneID (NCBI):

5313

UNIPROT ID:

P30613

Full Name:

pyruvate kinase, liver and RBC

Calculated MW:

574 aa, 62 kDa, 585 aa, 63 kDa

Observed MW:

58-62 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:500-1:2400

IP: 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC: 1:50-1:500

## Applications

Tested Applications:

WB, IP, IHC, ELISA

Cited Applications:

WB

Species Specificity:

human, mouse, rat

Cited Species:

human

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

Positive Controls:

WB: K-562 cells, mouse kidney tissue, mouse liver tissue, NIH/3T3 cells

IP: K-562 cells,

IHC: human liver tissue,

## 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).

## Notable Publications

Author	Pubmed ID	Journal	Application
Hannah N Wilkins	39539261	ACS Pharmacol Transl Sci	WB
Yanling Zhang	39414782	Nat Commun	WB

## 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:

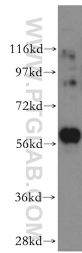
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

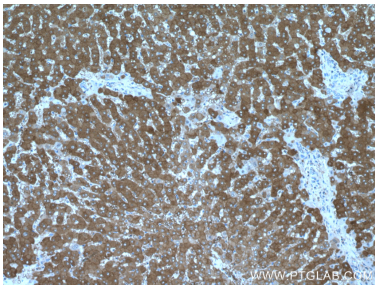
W: [ptgcn.com](http://ptgcn.com)

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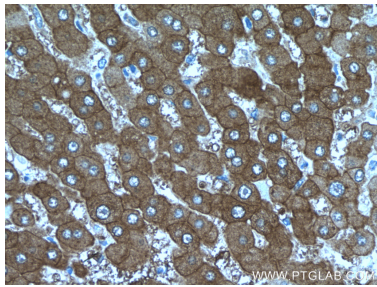
Selected Validation Data



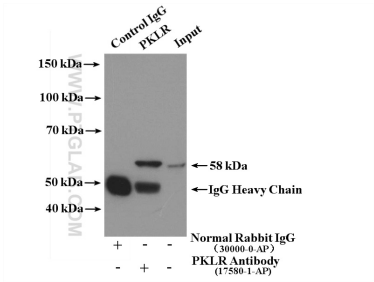
K-562 cells were subjected to SDS PAGE followed by western blot with 17580-1-AP (PKLR antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 17580-1-AP (PKLR antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 17580-1-AP (PKLR antibody) at dilution of 1:200 (under 40x lens).



IP result of anti-PKLR (IP:17580-1-AP, 4ug; Detection:17580-1-AP 1:500) with K-562 cells lysate 3200ug.