

For Research Use Only

# PKLR Polyclonal antibody

Catalog Number: 22456-1-AP

Featured Product

17 Publications



## Basic Information

<b>Catalog Number:</b> 22456-1-AP	<b>GenBank Accession Number:</b> BC025737	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 300 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 5313	<b>Recommended Dilutions:</b> WB 1:500-1:3000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P30613	
<b>Isotype:</b> IgG	<b>Full Name:</b> pyruvate kinase, liver and RBC	
<b>Immunogen Catalog Number:</b> AG17933	<b>Calculated MW:</b> 574 aa, 62 kDa	
	<b>Observed MW:</b> 58-62 kDa	

## Applications

**Tested Applications:**  
WB, IHC, ELISA

**Cited Applications:**  
WB, IHC, IF, CoIP

**Species Specificity:**  
human, mouse, rat

**Cited Species:**  
human, mouse, rat

**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 :** HepG2 cells, mouse skeletal muscle tissue, multi-cells/tissue, mouse muscle/liver tissue, mouse heart tissue, 293 cell, HepG2.MCF7 cells, HeLa cells, MCF-7 cells, human kidney tissue, human liver tissue, NIH/3T3 cells, HEK-293 cells, Raji cells

**IHC :** human lung cancer tissue, human breast cancer 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
Zhijun Liu	34601133	Mol Ther	WB,IHC
Yukimasa Takeda	24831725	PLoS Genet	WB
Wei Lu	27283076	Sci Rep	WB,IHC

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

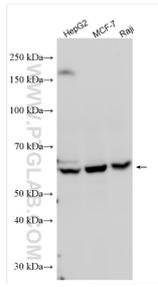
For technical support and original validation data for this product please contact:

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

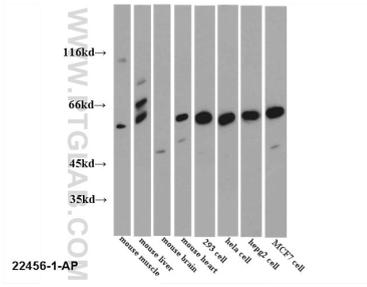
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

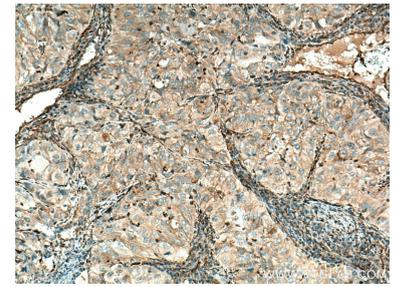
## Selected Validation Data



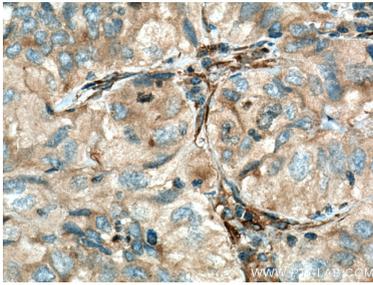
Various lysates were subjected to SDS PAGE followed by western blot with 22456-1-AP (PKLR antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



WB results of 22456-1-AP.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 22456-1-AP (PKLR antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 22456-1-AP (PKLR antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).