

For Research Use Only

# PCK1 Polyclonal antibody

Catalog Number: 16754-1-AP

Featured Product

63 Publications



## Basic Information

**Catalog Number:**

16754-1-AP

**Size:**

150ul, Concentration: 650 µg/ml by Nanodrop;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG10261

**GenBank Accession Number:**

BC023978

**GeneID (NCBI):**

5105

**UNIPROT ID:**

P35558

**Full Name:**

phosphoenolpyruvate carboxykinase 1 (soluble)

**Calculated MW:**

622 aa, 69 kDa

**Observed MW:**

66-69 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:5000-1:50000

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

IF 1:50-1:500

## Applications

**Tested Applications:**

WB, IP, IF, ELISA

**Cited Applications:**

WB, IP, IF, IHC, CoIP

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, goat, rat, mouse, pig, bovine

**Positive Controls:**

WB : mouse liver tissue, HepG2 cells, rat liver tissue

IP : HepG2 cells,

IF : HepG2 cells,

## Background Information

PCK1(Phosphoenolpyruvate carboxykinase, cytosolic) is also named as PEPCK1 and belongs to the phosphoenolpyruvate carboxykinase [GTP] family. It catalyzes the formation of phosphoenolpyruvate from oxaloacetate, with the release of carbon dioxide and GDP. It is also a main control point for the regulation of gluconeogenesis. In eukaryotes there are two isozymes: a cytoplasmic one and a mitochondrial one. Defects in PCK1 are the cause of cytosolic phosphoenolpyruvate carboxykinase deficiency (C-PEPCKD).

## Notable Publications

Author	Pubmed ID	Journal	Application
Yong Zhang	32970960	Can J Physiol Pharmacol	WB
Teresa W-M Fan	36150727	J Immunol	
Wei Xu	32935679	Food Funct	WB

## 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

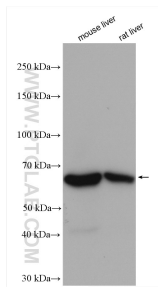
For technical support and original validation data for this product please contact:

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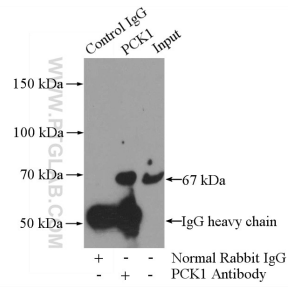
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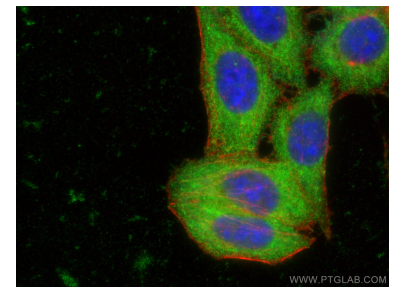
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 16754-1-AP (PCK1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



IP result of anti-PCK1 (IP:16754-1-AP, 4 $\mu$ g; Detection:16754-1-AP 1:500) with HepG2 cells lysate 3600 $\mu$ g.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using PCK1 antibody (16754-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).