

For Research Use Only

PCK1 Polyclonal antibody

Catalog Number: 16754-1-AP

Featured Product

62 Publications



Basic Information

Catalog Number:

16754-1-AP

Size:

650 µg/ml

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:

IF/ICC, IP, WB, 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

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

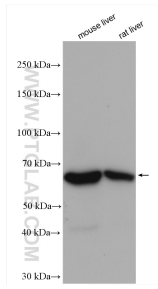
T: 4006900926

E: Proteintech-CN@ptglab.com

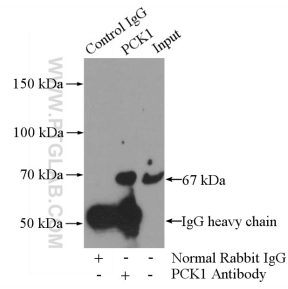
W: ptgcn.com

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

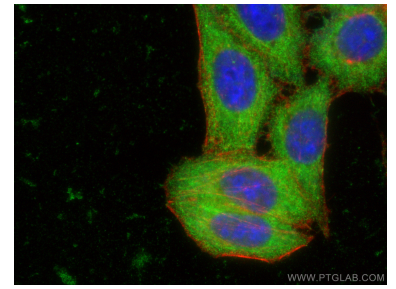
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 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 μ g; Detection:16754-1-AP 1:500) with HepG2 cells lysate 3600 μ 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).