

For Research Use Only

PCK1/2 Polyclonal antibody

Catalog Number: 16754-1-AP

Featured Product

78 Publications



Basic Information

Catalog Number:

16754-1-AP

Size:

150ul, Concentration: 650 ug/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 ug for 1.0-3.0 mg of total protein lysate

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, IF, IP, CoIP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, pig, bovine, goat

Positive Controls:

WB: mouse liver tissue, rat liver tissue

IP: HepG2 cells,

IF/ICC: 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). This antibody has weak cross-reactivity with PCK2 protein due to high sequence homology between PCK1 and PCK2.

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

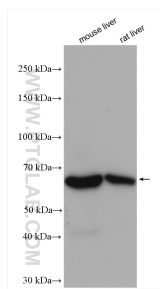
For technical support and original validation data for this product please contact:

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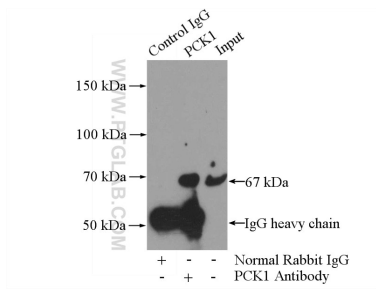
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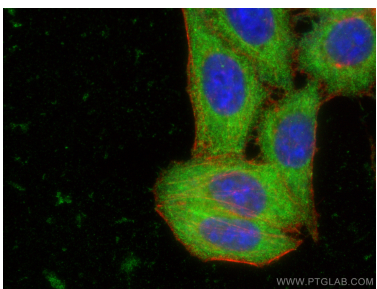
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 16754-1-AP (PCK1/2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



IP result of anti-PCK1/2 (IP:16754-1-AP, 4ug; Detection:16754-1-AP 1:500) with HepG2 cells lysate 3600ug.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using PCK1/2 antibody (16754-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).