

For Research Use Only

PCK1 Polyclonal antibody

Catalog Number: 16754-1-AP

Featured Product

62 Publications



Basic Information

Catalog Number: 16754-1-AP	GenBank Accession Number: BC023978	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 650 µg/ml by Nanodrop;	GeneID (NCBI): 5105	Recommended Dilutions: WB 1:5000-1:50000
Source: Rabbit	Full Name: phosphoenolpyruvate carboxykinase 1 (soluble)	IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IF 1:50-1:500
Isotype: IgG	Calculated MW: 622 aa, 69 kDa	
Immunogen Catalog Number: AG10261	Observed MW: 66-69 kDa	

Applications

Tested Applications: IF, IP, WB, ELISA	Positive Controls:
Cited Applications: CoIP, IF, IHC, IP, WB	WB : mouse liver tissue, HepG2 cells, rat liver tissue
Species Specificity: human, mouse, rat	IP : HepG2 cells,
Cited Species: human, goat, rat, mouse, pig, bovine	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

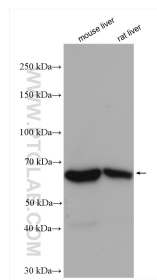
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

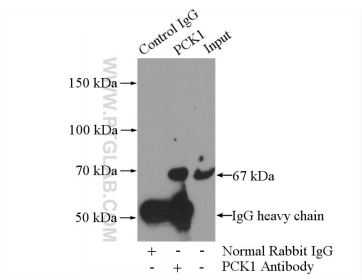
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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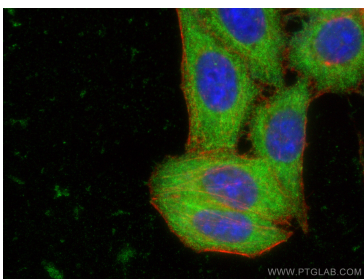
Selected Validation Data



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, 4ug; Detection:16754-1-AP 1:500) with HepG2 cells lysate 3600ug.



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).