

For Research Use Only

PCK2 Monoclonal antibody

Catalog Number: 67676-1-Ig **4 Publications**



Basic Information

Catalog Number: 67676-1-Ig	GenBank Accession Number: BC001454	Purification Method: Protein A purification
Size: 150ul , Concentration: 1028.9 ug/ml by Nanodrop and 500 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 5106	CloneNo.: 1B3F1
Source: Mouse	UNIPROT ID: Q16822	Recommended Dilutions: WB 1:2000-1:10000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:4000-1:16000 IF/ICC 1:200-1:800
Isotype: IgG1	Full Name: phosphoenolpyruvate carboxykinase 2 (mitochondrial)	
Immunogen Catalog Number: AG7021	Calculated MW: 71 kDa	
	Observed MW: 68 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, IP, ELISA	Positive Controls: WB : HuH-7 cells, rat liver tissue, pig liver tissue, rabbit liver tissue, HepG2 cells, LNCaP cells, K562 cells, Neuro-2a cells, HSC-T6 cells
Cited Applications: WB	IP : HepG2 cells,
Species Specificity: human, mouse, rat, pig, rabbit	IHC : human lung cancer tissue, human liver tissue
Cited Species: human, mouse, rat	IF/ICC : MCF-7 cells,
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

PCK2(phosphoenolpyruvate carboxykinase [GTP], mitochondrial) is also named as PEPCK2, PEPCK-M and belongs to the phosphoenolpyruvate carboxykinase [GTP] family. It catalyses the irreversible conversion of oxaloacetate to phosphoenolpyruvate, an important initial step in hepatic gluconeogenesis. Defects in PCK2 are the cause of mitochondrial phosphoenolpyruvate carboxykinase deficiency (M-PEPCKD). It has 2 isoforms produced by alternative splicing with the molecular weight of 71 kDa and 48 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Sa Yang	35873595	Front Pharmacol	WB
Mubai Sun	35730792	Food Funct	WB
Yushi Otsuka	39821719	FEBS Open Bio	WB

Storage

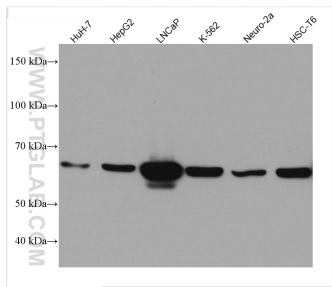
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

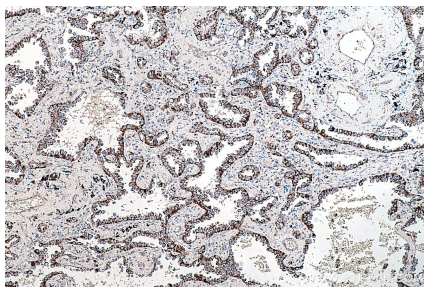
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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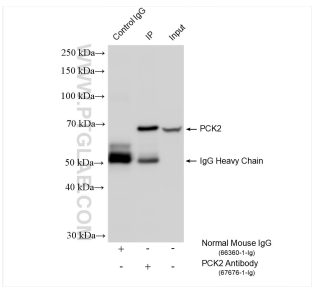
Selected Validation Data



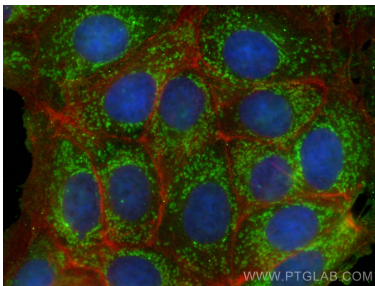
Various lysates were subjected to SDS PAGE followed by western blot with 67676-1-Ig (PCK2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 67676-1-Ig (PCK2 antibody) at dilution of 1:8000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-PCK2 (IP:67676-1-Ig, 4ug; Detection:67676-1-Ig 1:2000) with HepG2 cells lysate 1640 ug.



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using PCK2 antibody (67676-1-Ig, Clone: 1B3F1) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1), CL594-phalloidin (red).