

For Research Use Only

# PCK2 Monoclonal antibody

Catalog Number: 67676-1-Ig 4 Publications



## Basic Information

<b>Catalog Number:</b> 67676-1-Ig	<b>GenBank Accession Number:</b> BC001454	<b>Purification Method:</b> Protein A purification
<b>Concentration:</b> 1028.9 ug/ml	<b>GeneID (NCBI):</b> 5106	<b>CloneNo.:</b> 1B3F1
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q16822	<b>Recommended Dilutions:</b> 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
<b>Isotype:</b> IgG1	<b>Full Name:</b> phosphoenolpyruvate carboxykinase 2 (mitochondrial)	
<b>Immunogen Catalog Number:</b> AG7021	<b>Calculated MW:</b> 71 kDa <b>Observed MW:</b> 68 kDa	

## Applications

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

## 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
Qingfeng Shen	39687171	Heliyon	WB

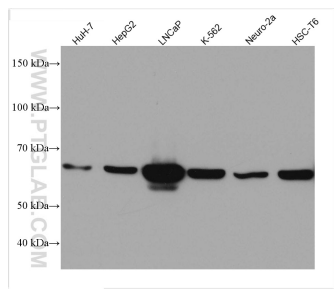
## Storage

**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

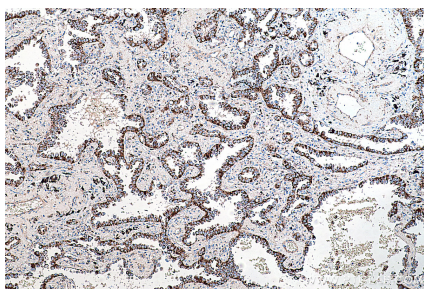
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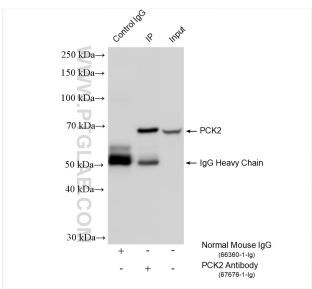
Selected Validation Data



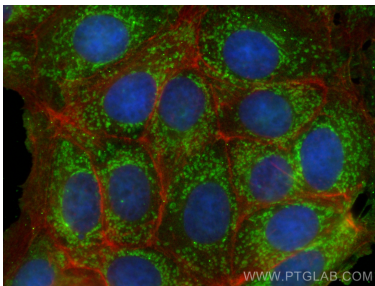
Various lysates were subjected to SDS PAGE followed by western blot with 67676-1-Ig (PCK2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



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).