For Research Use Only

PCK2 Monoclonal antibody

Catalog Number:67676-1-Ig 2 Publications

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Basic Information

Catalog Number:
67676-1-Ig

Size:
150ul , Concentration: 500 μg/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG7021

GenBank Accession Number:
BC001454

GeneID (NCBI):
5106

UNIPROT ID:
Q16822

Full Name:
phosphoenolpyruvate carboxykinase 2 (mitochondrial)

Calculated MW:
71 kDa

Observed MW:
68 kDa

Purification Method:
Protein G purification

CloneNo.:
1B3F1

Recommended Dilutions:
WB 1:2000-1:10000
IHC 1:4000-1:16000

Applications

Tested Applications:
WB, IHC, ELISA

Cited Applications:
WB

Species Specificity:
Human, mouse, rat, pig, rabbit

Cited Species:
human, rat, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

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

IHC : human lung cancer tissue, human liver tissue

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

Storage

Storage:
Store at -20°C.
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
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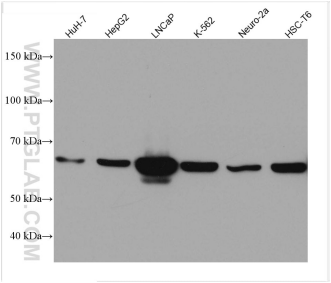
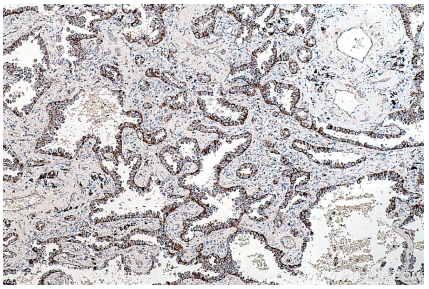
Selected Validation Data



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).