

For Research Use Only

PCK1 Monoclonal antibody

Catalog Number: 66862-1-Ig **1 Publications**



Basic Information

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|--|--|---|
| Catalog Number: 66862-1-Ig | GenBank Accession Number: BC023978 | Purification Method: Protein G purification |
| Size: 150ul , Concentration: 1000 ug/ml by Nanodrop; | GeneID (NCBI): 5105 | CloneNo.: 2F11B5 |
| Source: Mouse | UNIPROT ID: P35558 | Recommended Dilutions: WB 1:1000-1:4000 IHC 1:200-1:800 IF/ICC 1:400-1:1600 |
| Isotype: IgG1 | Full Name: phosphoenolpyruvate carboxykinase 1 (soluble) | |
| Immunogen Catalog Number: AG9720 | Calculated MW: 622 aa, 69 kDa | |
| | Observed MW: 65-69 kDa | |

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Cited Applications:
WB, IF

Species Specificity:
Human, Mouse, Rat, Pig

Cited Species:
monkey

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 : pig kidney tissue, pig liver tissue, rat liver tissue

IHC : mouse kidney tissue, human kidney tissue, human colon tissue

IF/ICC : HeLa 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 |
|--------------|-----------|---------------------|-------------|
| Ying-Xian Ma | 39433189 | Int J Biol Macromol | WB,IF |

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

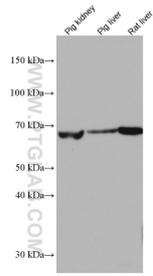
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

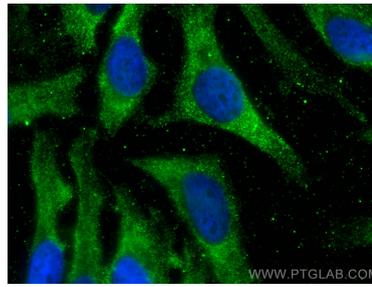
E: proteintech@ptglab.com
W: ptglab.com

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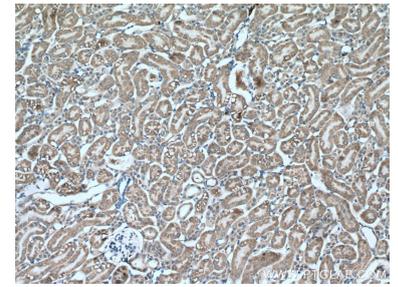
Selected Validation Data



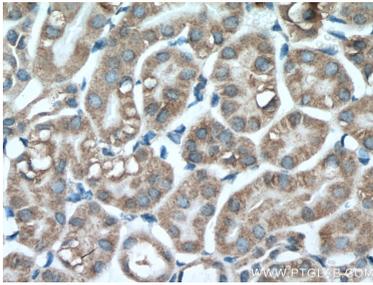
Various lysates were subjected to SDS PAGE followed by western blot with 66862-1-Ig (PCK1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using PCK1 antibody (66862-1-Ig, Clone: 2F11B5) at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L).



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 66862-1-Ig (PCK1 antibody) at dilution of 1:400 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 66862-1-Ig (PCK1 antibody) at dilution of 1:400 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).