For Research Use Only

PCK1 Monoclonal antibody

Catalog Number:66862-1-Ig

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Basic Information

Catalog Number:
66862-1-Ig

Size:
150ul , Concentration: 1400 μg/ml by Nanodrop and 760 μg/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG9720

GenBank Accession Number:
BC023978

GeneID (NCBI):
5105

Full Name:
phosphoenolpyruvate carboxykinase 1 (soluble)

Calculated MW:
622 aa, 69 kDa

Observed MW:
65-69 kDa

Purification Method:
Protein G purification

CloneNo.:
2F11B5

Recommended Dilutions:
WB 1:1000-1:4000
IHC 1:200-1:800
IF 1:400-1:1600

Applications

Tested Applications:
IF, IHC, WB, ELISA

Species Specificity:
Human, Mouse, Rat, Pig

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 : 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).

Storage

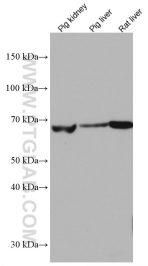
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

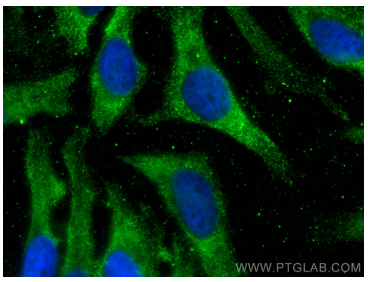
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

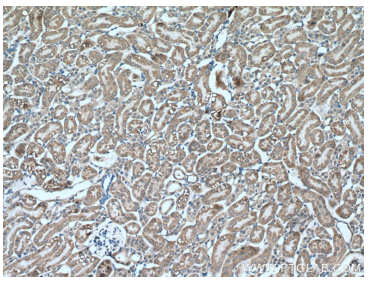
Selected Validation Data



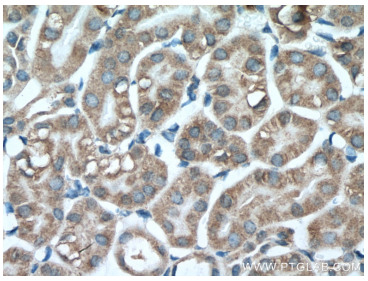
Various lysates were subjected to SDS PAGE followed by western blot with 66862-1-Ig (PCK1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



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 AffiniPure 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).