

PCK1 Rabbit pAb

Catalog No.: A2036

7 Publications

Basic Information

Observed MW

69kDa

Calculated MW

69kDa

Category

Primary antibody

Applications

ELISA, WB, IF/ICC, IP

Cross-Reactivity

Human, Mouse, Rat

Background

This gene is a main control point for the regulation of gluconeogenesis. The cytosolic enzyme encoded by this gene, along with GTP, catalyzes the formation of phosphoenolpyruvate from oxaloacetate, with the release of carbon dioxide and GDP. The expression of this gene can be regulated by insulin, glucocorticoids, glucagon, cAMP, and diet. Defects in this gene are a cause of cytosolic phosphoenolpyruvate carboxykinase deficiency. A mitochondrial isozyme of the encoded protein also has been characterized.

Recommended Dilutions

WB 1:500 - 1:1000

IF/ICC 1:50 - 1:200

IP 0.5µg-4µg antibody for
400µg-600µg extracts of
whole cells

Immunogen Information

Gene ID

5105

Swiss Prot

P35558

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 490-622 of human PCK1 (NP_002582.3).

Synonyms

PCKDC; PEPCK1; PEPCKC; PEPCK-C; PCK1

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

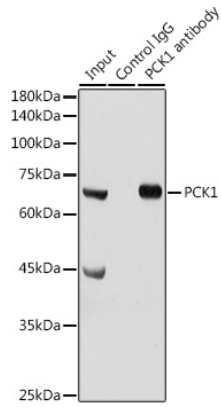
Affinity purification

Storage

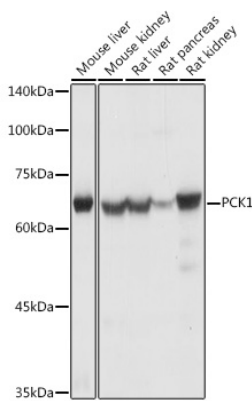
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300, 50% glycerol, pH7.3.

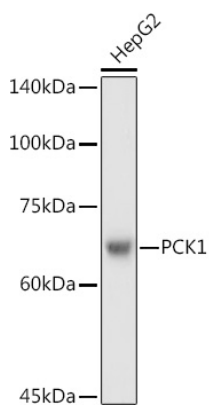
Validation Data



Immunoprecipitation analysis of 300 µg extracts of Mouse liver cells using 3 µg PCK1 antibody (A2036). Western blot was performed from the immunoprecipitate using PCK1 antibody (A2036) at a dilution of 1:1000.

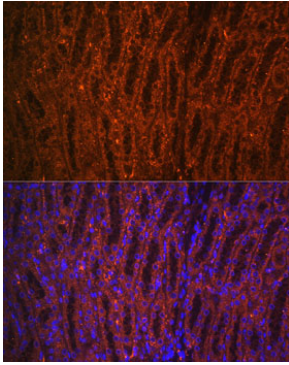


Western blot analysis of various lysates using PCK1 Rabbit pAb (A2036) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 1s.

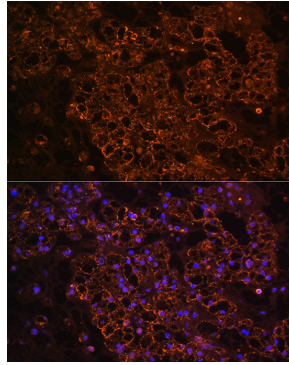


Western blot analysis of lysates from HepG2 cells, using PCK1 Rabbit pAb (A2036) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 3s.

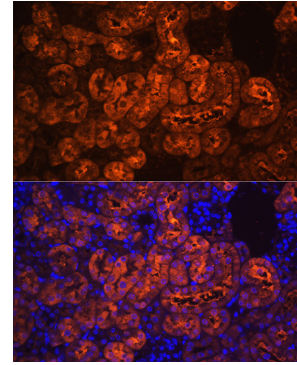
Validation Data



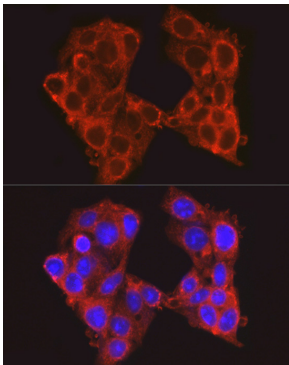
Immunofluorescence analysis of paraffin-embedded rat kidney using PCK1 Rabbit pAb (A2036) at dilution of 1:100 (40x lens). Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of paraffin-embedded human kidney cancer using PCK1 Rabbit pAb (A2036) at dilution of 1:100 (40x lens). Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of paraffin-embedded mouse kidney using PCK1 Rabbit pAb (A2036) at dilution of 1:100 (40x lens). Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of HepG2 cells using PCK1 Rabbit pAb (A2036) at dilution of 1:100 (40x lens). Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.