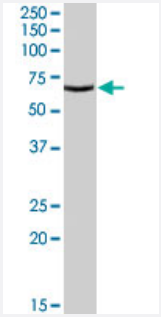
# PCK1 polyclonal antibody

Catalog # PAB7262 Size 100 ug

## Applications




### Western Blot (Tissue lysate)

PCK1 polyclonal antibody (Cat # PAB7262) (0.5 ug/mL) staining of human kidney lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

## Specification

| | |
|---|---|
| **Product Description** | Goat polyclonal antibody raised against synthetic peptide of PCK1. |
| **Immunogen** | A synthetic peptide corresponding to human PCK1. |
| **Sequence** | C-EKEVEDIEKYLEDQ |
| **Host** | Goat |
| **Theoretical MW (kDa)** | 69.2 |
| **Reactivity** | Human |
| **Form** | Liquid |
| **Purification** | Antigen affinity purification |
| **Concentration** | 0.5 mg/mL |
| **Quality Control Testing** | Antibody Reactive Against Synthetic Peptide. |
| **Recommend Usage** | ELISA (1:16000)<br>Western Blot (0.5-1.5 ug/mL)<br>The optimal working dilution should be determined by the end user. |

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| | |
|---|---|
| **Storage Buffer** | In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide) |
| **Storage Instruction** | Store at -20°C.<br>Aliquot to avoid repeated freezing and thawing. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Tissue lysate)

  PCK1 polyclonal antibody (Cat # PAB7262) (0.5 ug/mL) staining of human kidney lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

## Gene Info — PCK1

| | |
|---|---|
| **Entrez GeneID** | 5105 |
| **Protein Accession#** | NP_002582.2 |
| **Gene Name** | PCK1 |
| **Gene Alias** | MGC22652, PEPCK-C, PEPCK1, PEPCKC |
| **Gene Description** | phosphoenolpyruvate carboxykinase 1 (soluble) |
| **Omim ID** | 261680 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | This gene is a main control point for the regulation of gluconeogenesis. The cytosolic enzyme enc oded by this gene, along with GTP, catalyzes the formation of phosphoenolpyruvate from oxaloac etate, 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 cytosoli c phosphoenolpyruvate carboxykinase deficiency. A mitochondrial isozyme of the encoded protei n also has been characterized. [provided by RefSeq |
| **Other Designations** | OTTHUMP00000031374\|PEP carboxykinase\|cytosolic phosphoenolpyruvate carboxykinase 1\|ph osphoenolpyruvate carboxylase\|phosphopyruvate carboxylase |

## Publication Reference

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- Screening of 134 single nucleotide polymorphisms (SNPs) previously associated with type 2 diabetes replicates association with 12 SNPs in nine genes.

  Willer CJ, Bonnycastle LL, Conneely KN, Duren WL, Jackson AU, Scott LJ, Narisu N, Chines PS, Skol A, Stringham HM, Petrie J, Erdos MR, Swift AJ, Enloe ST, Sprau AG, Smith E, Tong M, Doheny KF, Pugh EW, Watanabe RM, Buchanan TA, Valle TT, Bergman RN, Tuomilehto J, Mohlke KL, Collins FS, Boehnke M.

  Diabetes 2007 Jan; 56(1):256.

## Pathway

- Adipocytokine signaling pathway
- Citrate cycle (TCA cycle)
- Glycolysis / Gluconeogenesis
- Insulin signaling pathway
- Metabolic pathways
- PPAR signaling pathway
- Pyruvate metabolism

## Disease

- Alzheimer disease
- Atherosclerosis
- Cardiovascular Diseases
- Carotid Artery Diseases
- Cognition
- Diabetes Mellitus
- Drug Toxicity
- Edema
- Genetic Predisposition to Disease
- Hypercholesterolemia

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- Hypertension
- Kidney Failure
- Metabolic Syndrome X
- Renal Insufficiency
- Schizophrenia
- Werner syndrome

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