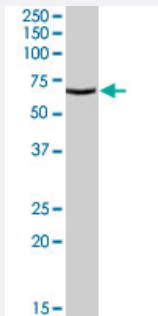


PCK1 polyclonal antibody

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-EKEVEDIEKYLENQ

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)
Western Blot (0.5-1.5 ug/mL)
The optimal working dilution should be determined by the end user.

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

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.

- Enzyme-linked Immunoabsorbent Assay

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 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. [provided by RefSeq]
Other Designations	OTTHUMP00000031374 PEP carboxykinase cytosolic phosphoenolpyruvate carboxykinase 1 phosphoenolpyruvate carboxylase phosphopyruvate carboxylase

Publication Reference

- [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](#)

- [Hypertension](#)
- [Kidney Failure](#)
- [Metabolic Syndrome X](#)
- [Renal Insufficiency](#)
- [Schizophrenia](#)
- [Werner syndrome](#)