

PCK1 rabbit monoclonal antibody

Catalog # H00005105-K Size 100 ug x up to 3

Specification

Product Description	Rabbit monoclonal antibody raised against a human PCK1 peptide using ARM Technology.
Immunogen	A synthetic peptide of human PCK1 is used for rabbit immunization. Customer or Abnova will decide on the preferred peptide sequence.
Host	Rabbit
Library Construction	Non-fusion antibody library from rabbit spleen (ARM Technology).
Expression	Overexpression vector and transfection into 293H cell line.
Reactivity	Human
Purification	Protein A
Isotype	IgG
Quality Control Testing	Antibody reactive against human PCK1 peptide by ELISA and mammalian transfected lysate by Western Blot.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Deliverable	Up to three rabbit IgG clones of 100 ug each will be delivered to customer.
Note	1. Customer may provide cell or tissue lysate for antibody screening. 2. Rabbit monoclonal antibody generated by ARM technology is amenable to antibody engineering including F(ab) ₂ , IgG, scFv and different Fc and non-Fc conjugates per customer request.

Applications

- Western Blot (Transfected lysate)

[Protocol Download](#)

- ELISA

Gene Info — PCK1

Entrez GeneID	5105
GeneBank Accession#	PCK1
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

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](#)