

Product datasheet for **TA331173**

PCK1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-PCK1 antibody: synthetic peptide directed towards the N terminal of human PCK1. Synthetic peptide located within the following region: PPQLQNGLNLSAKVVGSLDQLPQAVREFLENNALCQPDHIHICDGSEE
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	69 kDa
Gene Name:	phosphoenolpyruvate carboxykinase 1
Database Link:	NP_002582 Entrez Gene 5105 Human P35558



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- Background:** PCK1 is a main control point for the regulation of gluconeogenesis. PCK1, along with GTP, catalyzes the formation of phosphoenolpyruvate from oxaloacetate, with the release of carbon dioxide and GDP. The expression of PCK1 can be regulated by insulin, glucocorticoids, glucagon, cAMP, and diet. Defects in this gene are a cause of cytosolic phosphoenolpyruvate carboxykinase deficiency. 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. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.
- Synonyms:** PEPCK-C; PEPCK1; PEPCKC
- Note:** Rat: 100%; Human: 100%; Bovine: 100%; Pig: 92%; Mouse: 92%; Guinea pig: 92%; Dog: 85%; Horse: 85%; Rabbit: 85%
- Protein Families:** Druggable Genome
- Protein Pathways:** Adipocytokine signaling pathway, Citrate cycle (TCA cycle), Glycolysis / Gluconeogenesis, Insulin signaling pathway, Metabolic pathways, PPAR signaling pathway, Pyruvate metabolism

Product images:

WB Suggested Anti-PCK1 Antibody Titration: 0.2-1 ug/ml; Positive Control: Human Placenta