

## Product datasheet for **AP22519PU-N**

### **PCK1 (513-524) Goat Polyclonal Antibody**

#### **Product data:**

Product Type:	Primary Antibodies
Applications:	ELISA, IHC
Recommended Dilution:	<b>ELISA:</b> 1/8000. <b>Immunohistochemistry on Paraffin Sections:</b> 2 µg/ml.
Reactivity:	Canine, Human, Mouse, Rat, Bat, Equine, Monkey, Rabbit
Host:	Goat
Clonality:	Polyclonal
Immunogen:	Synthetic peptide from an internal region of human PCK1
Specificity:	This antibody detects PCK1 / PEPCK1 at aa 513-524.
Formulation:	Tris saline buffer, pH 7.3, 0.5% BSA, 0.02% sodium azide State: Aff - Purified State: Liquid Ig fraction
Concentration:	lot specific
Purification:	Immunoaffinity chromatography
Conjugation:	Unconjugated
Storage:	Store at 2 - 8 °C for up to three months or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	phosphoenolpyruvate carboxykinase 1
Database Link:	<a href="#">Entrez Gene 18534 Mouse</a> <a href="#">Entrez Gene 362282 Rat</a> <a href="#">Entrez Gene 696207 Monkey</a> <a href="#">Entrez Gene 5105 Human</a> <a href="#">P35558</a>
Background:	PCK1 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.
Synonyms:	PEPCK-C, PEPCKC, Phosphoenolpyruvate carboxylase, PEP carboxykinase

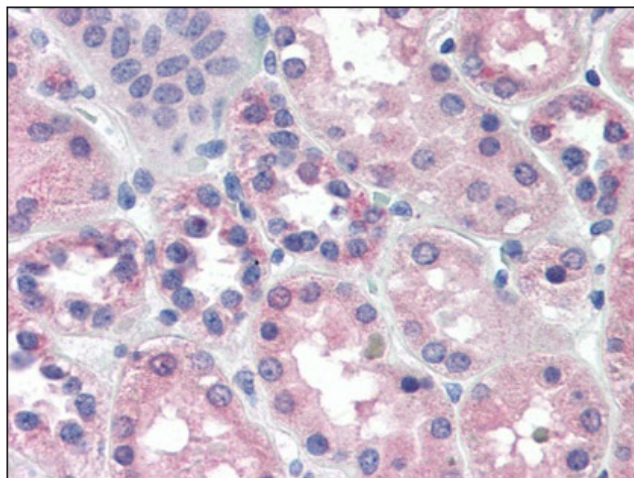


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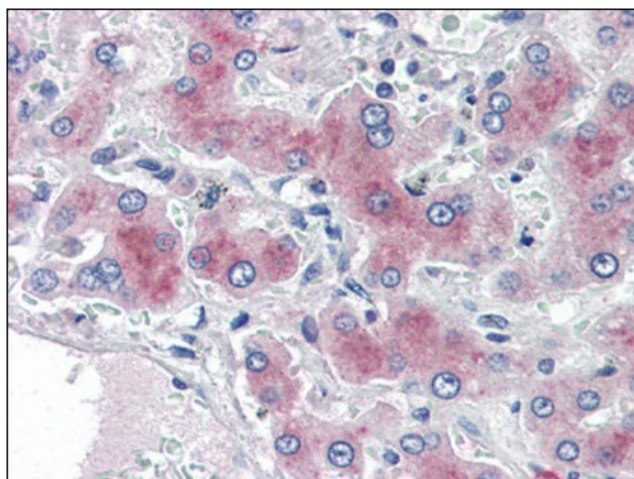
**Protein Families:** Druggable Genome

**Protein Pathways:** Adipocytokine signaling pathway, Citrate cycle (TCA cycle), Glycolysis / Gluconeogenesis, Insulin signaling pathway, Metabolic pathways, PPAR signaling pathway, Pyruvate metabolism

**Product images:**



Human Kidney (formalin-fixed, paraffin-embedded) stained with PCK1 antibody at 2 ug/ml followed by biotinylated anti-goat IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen.



Human Liver (formalin-fixed, paraffin-embedded) stained with PCK1 antibody at 2 ug/ml followed by biotinylated anti-goat IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen.