

**PCK2 Antibody (N-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP8094a**

**Specification**

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**PCK2 Antibody (N-term) - Product Information**

Application	IF, WB, IHC-P,E
Primary Accession	<a href="#">Q16822</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	70699
Antigen Region	24-54

**PCK2 Antibody (N-term) - Additional Information**

**Gene ID** 5106

**Other Names**

Phosphoenolpyruvate carboxykinase [GTP], mitochondrial, PEPCK-M, PCK2, PEPCK2

**Target/Specificity**

This PCK2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 24-54 amino acids from the N-terminal region of human PCK2.

**Dilution**

IF~~1:10~50  
WB~~1:1000  
IHC-P~~1:50~100  
E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

PCK2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**PCK2 Antibody (N-term) - Protein Information**

**Name** PCK2 ([HGNC:8725](#))

**Synonyms** PEPCK2

**Function** Mitochondrial phosphoenolpyruvate carboxykinase that catalyzes the conversion of oxaloacetate (OAA) to phosphoenolpyruvate (PEP), the rate-limiting step in the metabolic pathway that produces glucose from lactate and other precursors derived from the citric acid cycle (PubMed:[28955899](#)). Can play an active role in glyceroneogenesis and gluconeogenesis (PubMed:[28955899](#)).

**Cellular Location**

Mitochondrion.

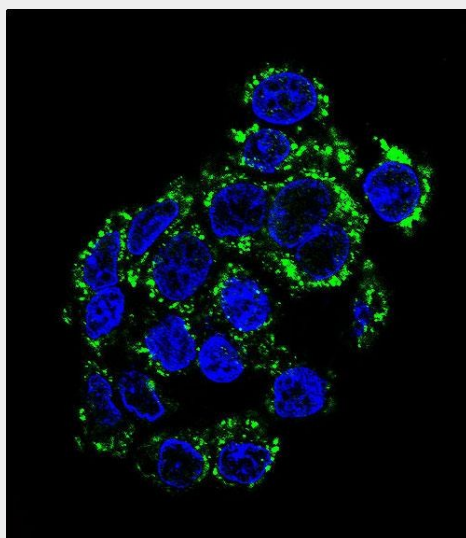
**Tissue Location**

Widely expressed..

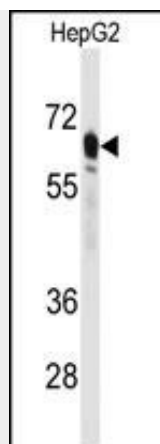
**PCK2 Antibody (N-term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

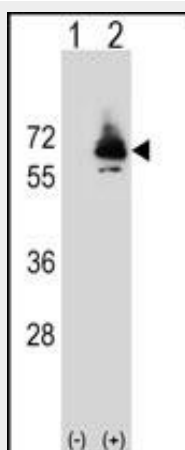
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**PCK2 Antibody (N-term) - Images**

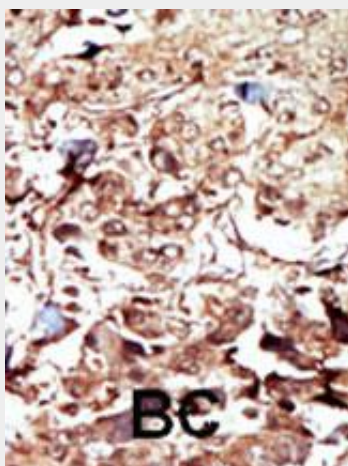
Confocal immunofluorescent analysis of PCK2 Antibody (N-term)(Cat#AP8094a) with HepG2 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green).DAPI was used to stain the cell nuclear (blue).



Western blot analysis of anti-PCK2 Antibody (N-term) (Cat.#AP8094a) in HepG2 cell line lysates (35ug/lane). PCK2 (arrow) was detected using the purified Pab.



Western blot analysis of PCK2 (arrow) using rabbit polyclonal PCK2 Antibody (Q39) (Cat.#AP8094a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the PCK2 gene.



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

#### **PCK2 Antibody (N-term) - Background**

This gene encodes a member of the phosphoenolpyruvate carboxykinase (GTP) family. The protein is a mitochondrial enzyme that catalyzes the conversion of oxaloacetate to phosphoenolpyruvate in the presence of GTP. A cytosolic form encoded by a different gene has also been characterized and is the key enzyme of gluconeogenesis in the liver. The encoded protein may serve a similar function, although it is constitutively expressed and not modulated by hormones such as glucagon and insulin that regulate the cytosolic form. Alternatively spliced transcript variants have been described.

#### **PCK2 Antibody (N-term) - References**

Strausberg, R.L., et al., Proc. Natl. Acad. Sci. U.S.A. 99(26):16899-16903 (2002).  
Modaressi, S., et al., Biochem. J. 333 (Pt 2), 359-366 (1998).  
Modaressi, S., et al., Biochem. J. 315 (Pt 3), 807-814 (1996).