

PCK2 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP8094a**Specification**

PCK2 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q16822](#)**PCK2 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 5106**Other Names**

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

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP8094a](/product/products/AP8094a) was selected from the N-term region of human PCK2 . A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PCK2 Antibody (N-term) Blocking Peptide - 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](http://www.uniprot.org/citations/28955899)). Can play an active role in glyceraloneogenesis and gluconeogenesis (PubMed: [28955899](http://www.uniprot.org/citations/28955899)).

Cellular Location

Mitochondrion.

Tissue Location

Widely expressed..

PCK2 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

PCK2 Antibody (N-term) Blocking Peptide - Images**PCK2 Antibody (N-term) Blocking Peptide - 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) Blocking Peptide - 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).