

PC Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP12494a**Specification**

PC Antibody (N-term) Blocking peptide - Product InformationPrimary Accession [P11498](#)**PC Antibody (N-term) Blocking peptide - Additional Information****Gene ID** 5091**Other Names**

Pyruvate carboxylase, mitochondrial, Pyruvic carboxylase, PCB, PC

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.

PC Antibody (N-term) Blocking peptide - Protein Information**Name** PC ([HGNC:8636](#))**Function**

Pyruvate carboxylase catalyzes a 2-step reaction, involving the ATP-dependent carboxylation of the covalently attached biotin in the first step and the transfer of the carboxyl group to pyruvate in the second. Catalyzes in a tissue specific manner, the initial reactions of glucose (liver, kidney) and lipid (adipose tissue, liver, brain) synthesis from pyruvate.

Cellular Location

Mitochondrion matrix

PC Antibody (N-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

PC Antibody (N-term) Blocking peptide - Images**PC Antibody (N-term) Blocking peptide - Background**

This gene encodes pyruvate carboxylase, which requires biotin and ATP to catalyze the carboxylation of pyruvate to oxaloacetate. The active enzyme is a homotetramer arranged in a tetrahedron which is located exclusively in the mitochondrial matrix. Pyruvate carboxylase is involved in gluconeogenesis, lipogenesis, insulin secretion and synthesis of the neurotransmitter glutamate. Mutations in this gene have been associated with pyruvate carboxylase deficiency. Alternatively spliced transcript variants with different 5' UTRs, but encoding the same protein, have been found for this gene. [provided by RefSeq].

PC Antibody (N-term) Blocking peptide - References

MacDonald, M.J., et al. Diabetologia 52(6):1087-1091(2009) Monnot, S., et al. Hum. Mutat. 30(5):734-740(2009) Wang, D., et al. Mol. Genet. Metab. 95 (1-2), 31-38 (2008) :Vora, S., et al. Natl Med J India 21(3):116-119(2008) Xiang, S., et al. Nat. Struct. Mol. Biol. 15(3):295-302(2008)