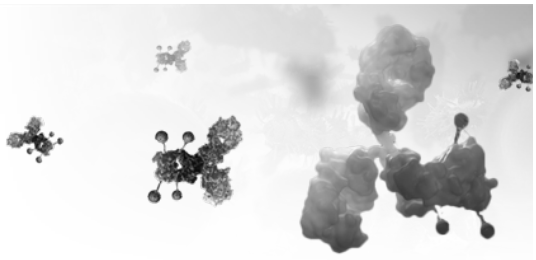

Human PC blocking peptide (CDBP2445)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Blocking/Immunizing peptide for anti-Pyruvate Carboxylase antibody
Antigen Description	This gene encodes pyruvate carboxylase, which requires biotin and ATP to catalyse 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, Jul 2008]
Species	Human
Conjugate	Unconjugated
Applications	Apuri, BL, ELISA
Format	Lyophilized powder
Size	100 µg
Preservative	None
Storage	Shipped at ambient temperature, store at -20°C.

GENE INFORMATION

Gene Name	PC pyruvate carboxylase [Homo sapiens (human)]
Official Symbol	PC
Synonyms	PC; pyruvate carboxylase; PCB; pyruvate carboxylase, mitochondrial; pyruvic carboxylase;

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Entrez Gene ID	5091
mRNA Refseq	NM_000920.3
Protein Refseq	NP_000911.2
UniProt ID	P11498
Chromosome Location	11q13.4-q13.5
Pathway	Alanine and aspartate metabolism, organism-specific biosystem; Biosynthesis of amino acids, organism-specific biosystem; Biosynthesis of amino acids, conserved biosystem; Biotin transport and metabolism, organism-specific biosystem; Carbon metabolism, organism-specific biosystem; Carbon metabolism, conserved biosystem; Citrate cycle (TCA cycle), organism-specific biosystem; Citrate cycle (TCA cycle), conserved biosystem; Defective AMN causes hereditary megaloblastic anemia 1, organism-specific b
Function	ATP binding; DNA binding; biotin binding; biotin carboxylase activity; metal ion binding; pyruvate carboxylase activity;

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