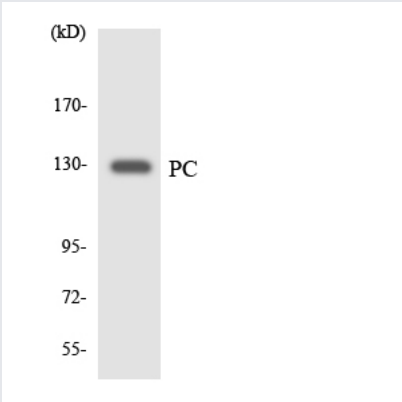
PC Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PC, Polyclonal Antibody
Full Product Name	PC Antibody
Product Gene Name	anti-PC antibody
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Purified from rabbit antiserum by affinity-chromatography using immunogen.
Concentration	1 mg/ml (lot specific)
Specificity	PC Antibody detects endogenous levels of PC.
Preparation and Storage	Stable at -20 degree C for at least 1 year.
Molecular Weight	129 kDa
OMIM	U04641 mRNA
3D Structure	ModBase 3D Structure for P11498
Target Modification	Unmodified/Total
Immunogen	The antiserum was produced against synthesized peptide derived from human PC.
Immunogen Range	341-390
Applications Tested/Suitable for anti-PC antibody	Western Blot (WB), Immunohistochemistry (IHC), ELISA (EIA)
Application Notes for anti-PC antibody	WB: 1:500~1:1000 IHC: 1:50~1:100 ELISA: 1:10000
Related Product Information for anti-PC antibody	MBS9509997 is an antibody targeting PC. Also known as PC Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-PC antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-PC antibody
Western blot analysis of the lysates from HT-29 cells using PC antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PC. It may not necessarily be applicable to this product.

NCBI GI #	106049295
NCBI GeneID	5091
NCBI Accession #	NP_000911.2
UniProt Primary Accession #	P11498
UniProt Secondary Accession #	Q16705; B4DN00
UniProt Related Accession #	P11498
GenBank Nucleotide #	NM_000920.3
NCBI Official Full Name	pyruvate carboxylase, mitochondrial
NCBI Official Synonym Full Names	pyruvate carboxylase
NCBI Official Symbol	PC
NCBI Official Synonym Symbols	PCB
UniProt Protein Name	Pyruvate carboxylase, mitochondrial
UniProt Synonym Protein Names	Pyruvic carboxylase; PCB
Protein Family	PC-esterase domain-containing protein
UniProt Gene Name	PC
UniProt Synonym Gene Names	PCB
NCBI Protein Information	pyruvate carboxylase, mitochondrial
NCBI Summary for PC	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]
UniProt Comments for PC	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.

Research Articles on PC	**1.** breast cancer cells proliferating as lung metastases activate PC-dependent anaplerosis in response to the lung microenvironment.
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