

Rat Pyruvate Carboxylase (PC) ELISA Kit | Pc elisa kit

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CATALOG #
AAA219810

REACTIVITY
Rat

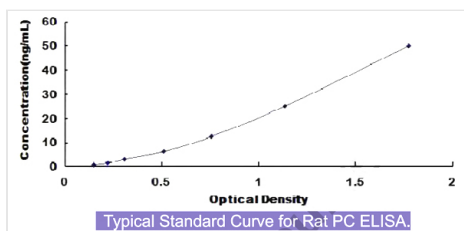
PRODUCT SYNONYMS

Pyruvate Carboxylase (PC); Rat Pyruvate Carboxylase (PC) ELISA Kit; PCB; Pc elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of PC. No significant cross-reactivity or interference between PC and analogues was observed.
Assay Type	Quantitative Sandwich
Samples	Rat serum, plasma, tissue homogenates or other biological fluids
Detection Range	0.781-50ng/mL
Sensitivity	< 0.21ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level PC were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level PC were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	Shelf Life: 12 months

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Pc elisa kit

Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to PC. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to PC. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain PC, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of PC in the samples is then determined by comparing the O.D. of the samples to the standard curve.

Intended Uses: The kit is a sandwich enzyme immunoassay for the in vitro quantitative measurement of PC in rat serum, plasma, tissue homogenates or other biological fluids.

NCBI AND UNIPROT INFORMATION

NCBI GI #	31543464
NCBI GeneID	25104
NCBI Accession #	NP_036876.2
NCBI GenBank Nucleotide #	NM_012744.2
UniProt Accession #	P52873; Q5RKM0; Q64555
Molecular Weight	129,777 Da
NCBI Official Full Name	pyruvate carboxylase, mitochondrial
NCBI Official Synonym Full Names	pyruvate carboxylase
NCBI Official Symbol	Pc
NCBI Official Synonym Symbols	Pcx
NCBI Protein Information	pyruvate carboxylase, mitochondrial; PCB; pyruvic carboxylase
UniProt Protein Name	Pyruvate carboxylase, mitochondrial
UniProt Gene Name	Pc
UniProt Synonym Gene Names	PCB
UniProt Entry Name	PYC_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.