

Human Propionyl Coenzyme A Carboxylase Alpha (PCCa) ELISA Kit | PCCa elisa kit

Human Propionyl Coenzyme A Carboxylase Alpha (PCCa)(Sandwich ELISA) ELISA Kit

CATALOG # AAA150921	REACTIVITY Human	APPLICATIONS ELISA
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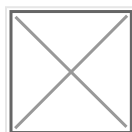
PRODUCT SYNONYMS

Propionyl Coenzyme A Carboxylase Alpha (PCCa); Human Propionyl Coenzyme A Carboxylase Alpha (PCCa)(Sandwich ELISA) ELISA Kit; ELISA Kit for Propionyl Coenzyme A Carboxylase Alpha (PCCa); PCCa/Propionyl Coenzyme A Carboxylase Alpha; Propanoyl-CoA:carbon dioxide ligase subunit alpha; Propionyl-CoA carboxylase alpha chain; mitochondrial; PCCa elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of PCCa. No significant cross-reactivity or interference between PCCa and analogues was observed.
Assay Type	Quantitative Sandwich
Samples	Human tissue homogenates, cell lysates and other biological fluids
Detection Range	0.312-20ng/mL
Sensitivity	< 0.112ng/mL
Applicable Applications for PCCa elisa kit	ELISA
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level PCCa 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 PCCa were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	Store at 4 degree C for 1 month; -20 degree C for long-term (within shelf life) The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for PCCa elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to PCCa. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to PCCa. 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 PCCa, 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 PCCa 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 in vitro quantitative measurement of PCCa in human tissue homogenates, cell lysates and other biological fluids.
Product Categories/Family for PCCa elisa kit	Enzyme & Kinase

NCBI AND UNIPROT INFORMATION

NCBI GI #	65506442
NCBI GeneID	5095
NCBI Accession #	NP_000273
NCBI GenBank Nucleotide #	NM_000282
UniProt Accession #	P05165; Q15979; Q8WXQ7; B4DKY8; B4DPF9; C9JPQ8
Molecular Weight	75,002 Da
NCBI Official Full Name	propionyl-CoA carboxylase alpha chain, mitochondrial isoform a
NCBI Official Synonym Full Names	propionyl CoA carboxylase, alpha polypeptide
NCBI Official Symbol	PCCA
NCBI Protein Information	propionyl-CoA carboxylase alpha chain, mitochondrial; PCCase alpha subunit; pccA complementation group; propanoyl-CoA:carbon dioxide ligase alpha subunit; propionyl Coenzyme A carboxylase, alpha polypeptide
UniProt Protein Name	Propionyl-CoA carboxylase alpha chain, mitochondrial
UniProt Gene Name	PCCA
UniProt Synonym Gene Names	PCCase subunit alpha
UniProt Entry Name	PCCA_HUMAN

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.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/propionyl-coenzyme-a-carboxylase-alpha-pcca/150921>