

产品名称: PCB Rabbit Polyclonal Antibody
产品货号: APRab15816



产品概述 (Summary)

产品名称 (Production Name)	PCB Rabbit Polyclonal Antibody
描述 (Description)	Rabbit polyclonal Antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,IHC,ICC/IF,ELISA
种属反应性 (Reactivity)	Human,Mouse,Rat

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Polyclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	PC
别名 (Alternative Names)	PC; Pyruvate carboxylase; mitochondrial; Pyruvic carboxylase; PCB
基因 ID (Gene ID)	5091.0
蛋白 ID (SwissProt ID)	P11498.The antiserum was produced against synthesized peptide derived from human PC. AA range:357-406

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:100-1:300,ELISA 1:10000-1:20000
蛋白分子量 (Molecular Weight)	120kDa

研究背景 (Background)

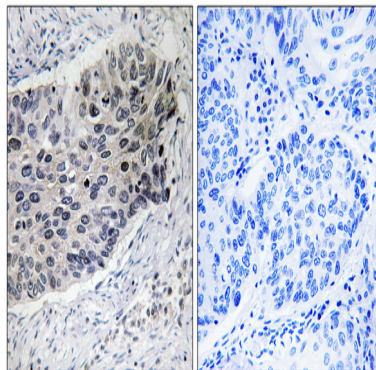
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This gene encodes pyruvate carboxylase, which requires biotin and ATP to catalyse the carboxylation of pyruvate to oxaloacetate. The active enzyme is a homotetramer arranged in a tetrahedron which is located exclusively in the mitochondrial matrix. 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], catalytic activity: $\text{ATP} + \text{pyruvate} + \text{HCO}_3^- = \text{ADP} + \text{phosphate} + \text{oxaloacetate}$, cofactor: Binds 1 manganese ion per subunit, cofactor: Biotin, disease: Defects in PC are the cause of pyruvate carboxylase deficiency (PC deficiency) [MIM:266150]. PC deficiency leads to lactic acidosis, mental retardation and death. It occurs in three forms: mild or type A, severe neonatal or type B, and a very mild lacticacidemia, 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, online information: Pyruvate carboxylase entry, pathway: Carbohydrate biosynthesis; gluconeogenesis, similarity: Contains 1 ATP-grasp domain, similarity: Contains 1 biotin carboxylation domain, similarity: Contains 1 biotinyl-binding domain, similarity: Contains 1 carboxyltransferase domain, subunit: Homotetramer,

研究领域 (Research Area)

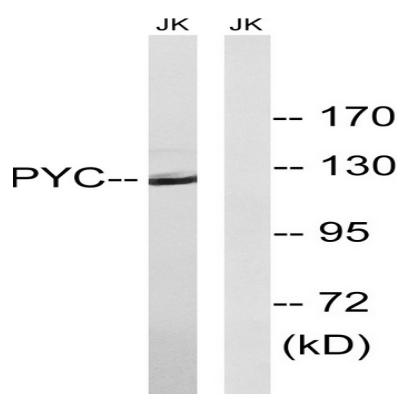
Citrate cycle (TCA cycle); Pyruvate metabolism;

图片 (Image Data)

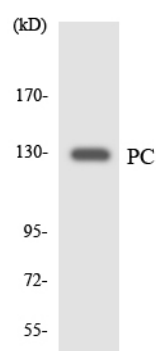


Immunohistochemistry analysis of paraffin-embedded human lung carcinoma tissue, using PC Antibody. The picture on the right is blocked with the synthesized peptide.

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Western blot analysis of lysates from Jurkat cells, using PC Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HT-29 cells using PC antibody.

注意事项 (Note)

For research use only .