产品名称：PEPCK-C Rabbit Polyclonal Antibody
产品货号：APRab15963

产品概述（Summary）

产品名称（Production Name）	PEPCK-C 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）	PCK1
别名（Alternative Names）	PCK1; PEPCK1; Phosphoenolpyruvate carboxykinase, cytosolic [GTP]; PEPCK-C; Phosphoenolpyruvate carboxylase
基因 ID（Gene ID）	5105.0
蛋白 ID（SwissProt ID）	P35558.The antiserum was produced against synthesized peptide derived from the Internal region of human PCK1. AA range:491-540

产品应用（Application）

稀释比（Dilution Ratio）	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:10000-1:20000
蛋白分子量（Molecular Weight）	65kDa

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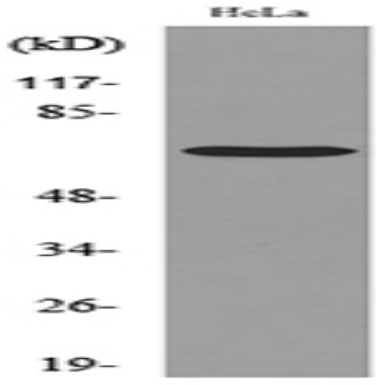
研究背景（Background）

This gene is a main control point for the regulation of gluconeogenesis. The cytosolic enzyme encoded by this gene, along with GTP, catalyzes the formation of phosphoenolpyruvate from oxaloacetate, with the release of carbon dioxide and GDP. The expression of this gene can be regulated by insulin, glucocorticoids, glucagon, cAMP, and diet. Defects in this gene are a cause of cytosolic phosphoenolpyruvate carboxykinase deficiency. A mitochondrial isozyme of the encoded protein also has been characterized. [provided by RefSeq, Jul 2008],catalytic activity:GTP + oxaloacetate = GDP + phosphoenolpyruvate + CO(2).,cofactor:Binds 1 manganese ion per subunit.,disease:Defects in PCK1 are the cause of cytosolic phosphoenolpyruvate carboxykinase deficiency (cytosolic PEPCK deficiency) [MIM:261680]. PEPCK deficiency is a metabolic disorder resulting from impaired gluconeogenesis. It is a rare disease with less than 10 cases reported in the literature. Clinical characteristics include hypotonia, hepatomegaly, failure to thrive, lactic acidosis and hypoglycaemia. Autoposy reveals fatty infiltration of both the liver and kidneys. The disorder is transmitted as an autosomal recessive trait.,enzyme regulation:Activity is affected by a number of hormones regulating this metabolic process (such as glucagon, insulin, or glucocorticoids).,function:Catalyzes the conversion of oxaloacetate (OAA) to phosphoenolpyruvate (PEP), the rate-limiting step in the metabolic pathway that produces glucose from lactate and other precursors derived from the citric acid cycle.,miscellaneous:In eukaryotes there are two isozymes: a cytoplasmic one and a mitochondrial one.,pathway:Carbohydrate biosynthesis; gluconeogenesis.,similarity:Belongs to the phosphoenolpyruvate carboxykinase [GTP] family.,subunit:Monomer.,tissue specificity:Major sites of expression are liver, kidney and adipocytes.,

研究领域（Research Area）

Glycolysis / Gluconeogenesis;Citrate cycle (TCA cycle);Pyruvate metabolism;PPAR;Insulin_Receptor;Adipocytokine;

图片（Image Data）



Western blot analysis of lysate from HeLa cells, using PCK1 Antibody.

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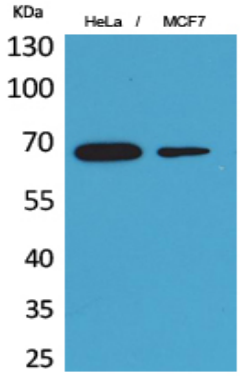
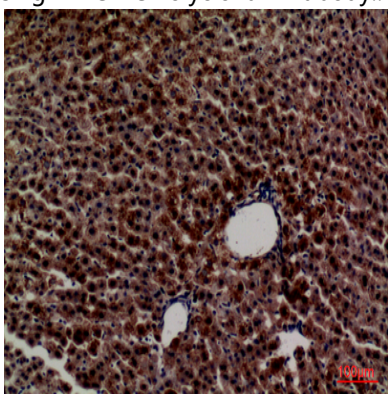
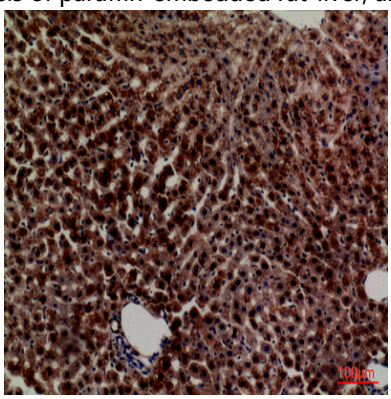


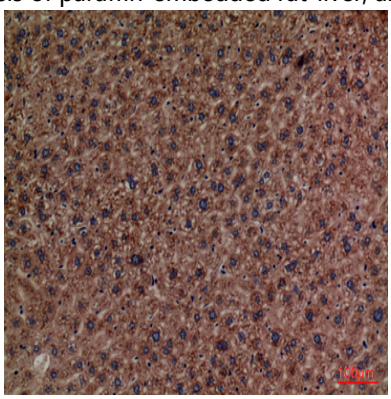
Western Blot analysis of HeLa, MCF7 cells using PEPCK-C Polyclonal Antibody.. Secondary antibody was diluted at 1:20000



Immunohistochemical analysis of paraffin-embedded rat-liver, antibody was diluted at 1:100



Immunohistochemical analysis of paraffin-embedded rat-liver, antibody was diluted at 1:100



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Immunohistochemical analysis of paraffin-embedded mouse-liver, antibody was diluted at 1:100

注意事项（Note）

For research use only .