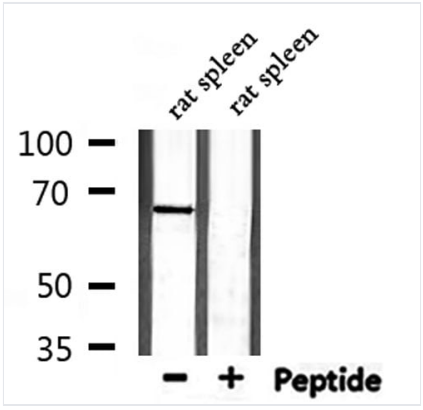
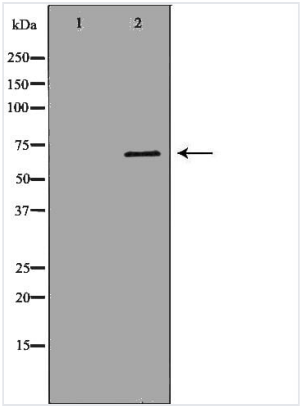
PCK1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

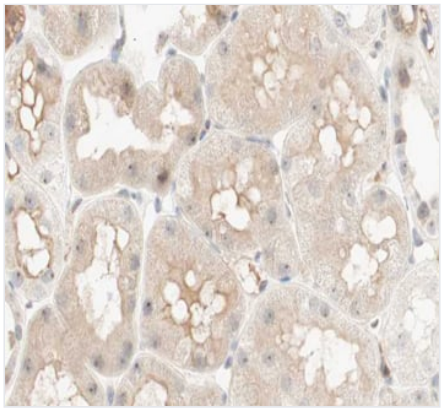
Product Name	PCK1, Polyclonal Antibody
Full Product Name	PCK1 Antibody
Product Gene Name	anti-PCK1 antibody
Product Synonym Names	cytosolic [GTP]; GTP; PCK1; PCKGC_HUMAN; PEP carboxykinase; PEPCK-C; PEPCK1; PEPCKC; Phosphoenolpyruvate carboxykinase 1 (soluble); Phosphoenolpyruvate carboxykinase 1; Phosphoenolpyruvate carboxykinase; Phosphoenolpyruvate carboxykinase, cytosolic [GTP]; Phosphoenolpyruvate carboxykinase, cytosolic; Phosphoenolpyruvate carboxylase; Phosphopyruvate carboxylase
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Concentration	1mg/ml (lot specific)
Specificity	PCK1 antibody detects endogenous levels of total PCK1
Preparation and Storage	Store at -20°C. Stable for 12 months from date of receipt.
Antibody/Peptide Pairs	PCK1 peptide (MBS9626142) is used for blocking the activity of PCK1 antibody (MBS9607426)
Molecular Weight	69 kDa
3D Structure	ModBase 3D Structure for P35558
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Immunogen	A synthetic peptide of human PCK1, corresponding to a region within C-terminal amino acids.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PCK1 antibody	Western Blot (WB), Immunohistochemistry (IHC), ELISA (EIA)
Application Notes for anti-PCK1 antibody	WB: 1:500-1:2000 IHC: 1:50-1:200
Related Product Information for anti-PCK1 antibody	Description: PCK1(Phosphoenolpyruvate carboxykinase, cytosolic) is also named as PEPCK1 and belongs to the phosphoenolpyruvate carboxykinase [GTP] family. It catalyzes the formation of phosphoenolpyruvate from oxaloacetate, with the release of carbon dioxide and GDP. It is also a main control point for the regulation of gluconeogenesis. In eukaryotes there are two isozymes: a cytoplasmic one and a mitochondrial one. Defects in PCK1 are the cause of cytosolic phosphoenolpyruvate carboxykinase deficiency (C-PEPCKD). This antibody is specific to PCK1.
Other Notes	Small volumes of anti-PCK1 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.
Searchable Terms for PCK1 purchase	MBS9607426 is an antibody targeting PCK1. Also known as PCK1 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-PCK1 antibody
Western blot analysis of extracts from rat spleen, using PCK1 Antibody.



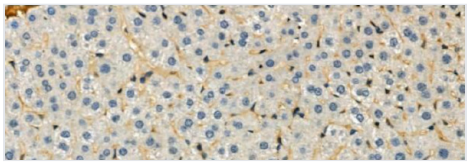
Western Blot (WB) of anti-PCK1 antibody
Western blot analysis of Jurkat whole cell lysates, using PCK1 Antibody. The lane on the left is treated with the antigen-specific peptide.



Immunohistochemistry (IHC) of anti-PCK1 antibody
MBS9607426 at 1/100 staining human kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



Immunofluorescence (IF) of anti-PCK1 antibody
MBS9607426 staining A549 cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25°C. Samples were then incubated with primary Ab(MBS9607426) and mouse anti-beta tubulin Ab(MBS9610328) for 1 hour at 37°C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary Ab. The nuclear counter stain is DAPI (blue).



Immunohistochemistry (IHC) of anti-PCK1 antibody
MBS9607426 at 1/100 staining Mouse liver tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary Ab at 4°C overnight. An HRP conjugated anti-Rabbit Ab was used as the secondary Ab.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PCK1. It may not necessarily be applicable to this product.

NCBI GI #	187281517
NCBI GeneID	5105
NCBI Accession #	NP_002582.3
UniProt Primary Accession #	P35558
UniProt Secondary Accession #	Q8TCA3; Q9UJD2; A8K437; B4DT64
UniProt Related Accession #	P35558

GenBank Nucleotide #	NM_002591.3
NCBI Official Full Name	phosphoenolpyruvate carboxykinase, cytosolic
NCBI Official Synonym Full Names	phosphoenolpyruvate carboxykinase 1
NCBI Official Symbol	PCK1
NCBI Official Synonym Symbols	PCKDC; PEPCK1; PEPCKC; PEPCK-C
UniProt Protein Name	Phosphoenolpyruvate carboxykinase, cytosolic [GTP]
Protein Family	Phosphoenolpyruvate carboxykinase
UniProt Gene Name	PCK1
UniProt Synonym Gene Names	PEPCK-C
NCBI Protein Information	phosphoenolpyruvate carboxykinase, cytosolic [GTP]
NCBI Summary for PCK1	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]
UniProt Comments for PCK1	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.
Research Articles on PCK1	**1.** circC3P1 acts as a tumor suppressor via enhancing PCK1 expression by sponging miR-4641 in hepatocellular carcinoma.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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