

Rabbit PCK1 Polyclonal Antibody | anti-PCK1 antibody

PCK1 Antibody (C-term)

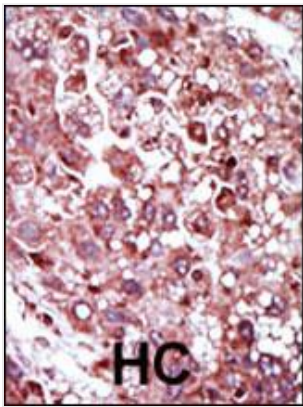
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA286523	Rabbit	Human, mouse, rat	Immunohistochemistry, Immunofluorescence, ELISA, Western Blot

PRODUCT SYNONYMS

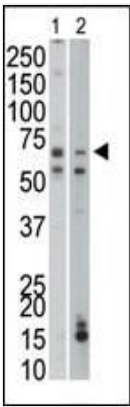
PCK1; Polyclonal Antibody; PCK1 Antibody (C-term); Phosphoenolpyruvate carboxykinase; cytosolic [GTP]; PEPCK-C; PEPCK1; anti-PCK1 antibody

PRODUCT SPECIFICATIONS

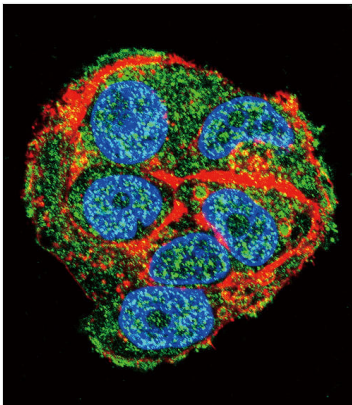
Host	Rabbit
Reactivity	Human, mouse, rat
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This PCK1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 592-622 amino acids from the C-terminal region of human PCK1.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.5 (varies by lot)
Sequence Positions	592-622
Sequence Length	622
Applicable Applications for anti-PCK1 antibody	IHC (Immunohistochemistry), IF (Immunofluorescence), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



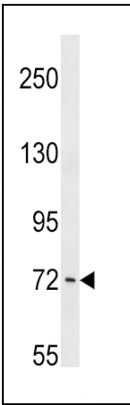
IHC (Immunohistochemistry)
Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.



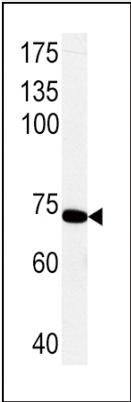
WB (Western Blot)
The anti-PCK1 Pab is used in Western blot to detect PCK1 in mouse liver (Lane 1) and mouse small intestine tissue lysates (Lane 2).



IF (Immunofluorescence)
Confocal immunofluorescent analysis of PCK1 Antibody (C-term) with HepG2 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). Actin filaments have been labeled with Alexa Fluor 555 phalloidin (red).DAPI was used to stain the cell nuclear (blue).



WB (Western Blot)
PCK1 Antibody (C-term) western blot analysis in NCI-H460 cell line lysates (35ug/lane).This demonstrates the PCK1 antibody detected the PCK1 protein (arrow).



WB (Western Blot)
Western blot analysis of PCK1 Antibody (C-term) in rat primary hepatocyte cell line lysates. PCK1 (arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

Related Product Information for anti-PCK1 antibody

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. A mitochondrial isozyme of the encoded protein also has been characterized.

Product Categories/Family for anti-PCK1 antibody	Cancer ; Cardiovascular ; Metabolism ; Signal transduction
References	Dunten, P., et al., J. Mol. Biol. 316(2):257-264 (2002). Strausberg, R.L., et al., Proc. Natl. Acad. Sci. U.S.A. 99(26):16899-16903 (2002). Deloukas, P., et al., Nature 414(6866):865-871 (2001). O'Brien, R.M., et al., Biochim. Biophys. Acta 1264(3):284-288 (1995). Ting, C.N., et al., Genomics 16(3):698-706 (1993).

NCBI AND UNIPROT INFORMATION

NCBI GI #	187281517
NCBI GeneID	5105
NCBI Accession #	NP_002582.3
NCBI GenBank Nucleotide #	NM_002591.3
UniProt Accession #	P35558 ; Q8TCA3 ; Q9UJD2 ; A8K437 ; B4DT64
Molecular Weight	69195
NCBI Official Full Name	phosphoenolpyruvate carboxykinase, cytosolic
NCBI Official Synonym Full Names	phosphoenolpyruvate carboxykinase 1 (soluble)
NCBI Official Symbol	PCK1
NCBI Official Synonym Symbols	PEPCK1; PEPCKC; PEPCK-C
NCBI Protein Information	phosphoenolpyruvate carboxykinase, cytosolic [GTP]
UniProt Protein Name	Phosphoenolpyruvate carboxykinase, cytosolic [GTP]
UniProt Gene Name	PCK1
UniProt Synonym Gene Names	PEPCK-C
UniProt Entry Name	PCKGC_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/polyclonal/pck1-antibody-immunohistochemistry-immunofluorescence-western-blot-elisa/286523>