

Rabbit anti-Human PCK1 Polyclonal Antibody | anti-PCK1 antibody

Anti-PCK1 Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA256683	Rabbit	Human	Immunoprecipitation, Immunohistochemistry, Western Blot

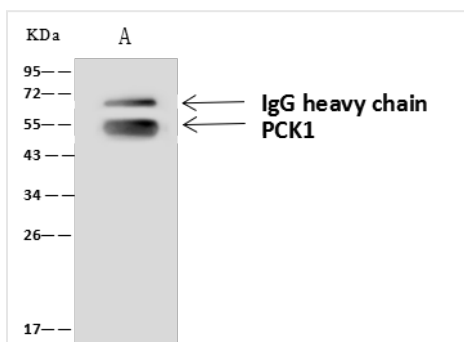
PRODUCT SYNONYMS

PCK1; Polyclonal Antibody; Anti-PCK1 Antibody; Rabbit Polyclonal; PCK1 Antibody; Rabbit PAb; Antigen Affinity Purified; phosphoenolpyruvate carboxykinase 1 (soluble); Anti-PEPCK-C Antibody; Anti-PEPCK1 Antibody; Anti-PEPCKC Antibody; anti-PCK1 antibody

PRODUCT SPECIFICATIONS

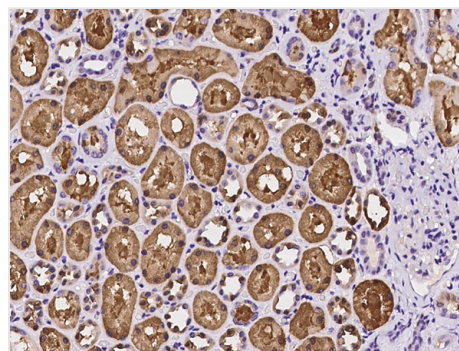
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human PCK1
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-PCK1 antibody	IP (Immunoprecipitation), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived Human PCK1 fragment
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with E Coli-derived Human PCK1 fragment, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.

IMAGES



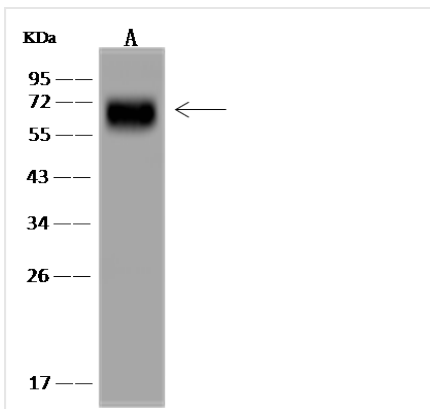
IP (Immunoprecipitation)

PCK1 was immunoprecipitated using: Lane A: 0.5 mg HepG2 Whole Cell Lysate 4 uL anti-PCK1 rabbit polyclonal antibody and 60 ug of Immunomagnetic beads Protein A/G. Primary antibody: Anti-PCK1 rabbit polyclonal antibody, at 1:100 dilution. Secondary antibody: Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 69 kDa. Observed band size: 69 kDa.



IHC (Immunohistochemistry)

Immunochemical staining of human PCK1 in human kidney with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections.



WB (Western Blot)

Anti-PCK1 rabbit polyclonal antibody at 1:500 dilution
 Lane A: HepG2 Whole Cell Lysate
 Lane B: NCI-H460 Whole Cell Lysate
 Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 69 kDa Observed band size: 69 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-PCK1 antibody	The PCK1 gene (Pck1 in rodents) encodes the cytosolic isozyme of phosphoenolpyruvate carboxykinase (PEPCK-C), which is well-known for its function as a gluconeogenic enzyme in the liver and kidney. PCK1 is a key gene in gluconeogenesis and glyceroneogenesis, and gluconeogenesis mainly occurs in the liver during fasting. Previous studies have demonstrated that PCK1 is downregulated in hepatocellular carcinoma (HCC) and predicts poor prognosis. Overexpression of PCK1 has been shown to suppress liver tumor growth. PCK1 is a key gene in maintaining plasma glucose homeostasis during fasting and that the upregulated expression of PCK1 may be responsible for constant plasma free fatty acid level by the glyceroneogenesis process. PCK1 is a multi-functional enzyme that plays important role in physiological processes, including reproduction.
References	Tuo L, et al. (2019) Pck1 negatively regulates cell cycle progression and hepatoma cell proliferation via the ampk/p27(kip1) axis. J Exp Clin Cancer Res 38 (1): 50. Tuo L, et al. (2018) Pck1 downregulation promotes txnrd1 expression and hepatoma cell growth via the nrf2/keap1 pathway. Front Oncol 8 611. Chen L, et al. (2017) Pck1 expression is correlated with the plasma glucose level in the duck. Anim Genet 48 (3): 358-361. Beale EG, et al. (2007) Pck1 and pck2 as candidate diabetes and obesity genes. Cell Biochem Biophys 48 (2-3): 89-95.

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-immunoprecipitation-immunohistochemistry-western-blot-elisa/256683>