

PCK1 polyclonal antibody

Catalog: BS66234

Host: Rabbit

Reactivity: Human, Mouse, Rat

BackGround:

Phosphoenolpyruvate carboxykinase 1 (PCK1, PEPCK1 or PEPCK-C) is a cytosolic enzyme responsible for the conversion of oxaloacetate to phosphoenolpyruvate. PCK1 is involved in controlling the rate-limiting step of gluconeogenesis in the liver, which generates glucose from non-carbohydrate substrates such as lactate and glycerol. The deacetylase SirT1 stimulates transcription of PCK1 and glucose-6-phosphatase to activate gluconeogenesis. Depending on nutritional state, Stat3 can inhibit PCK1 and glucose-6-phosphatase expression and suppress gluconeogenesis. Relatively high glucose concentration can result in acetylation of PCK1 by P300 acetyltransferase, promoting an interaction between PCK1 and the E3 ligase UBR5 that leads to the PCK1 destabilization.

Product:

1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

~ 69 kDa

Swiss-Prot:

P35558

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:500~1:1000

IHC: 1:50~1:100

IF/ICC: 1:50~1:200

Storage&Stability:

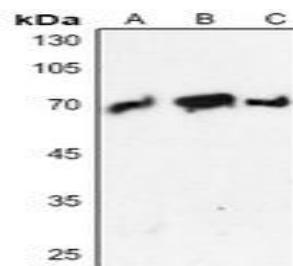
Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

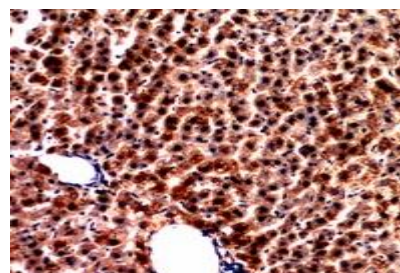
PCK1 polyclonal antibody detects endogenous levels of

PCK1 protein.

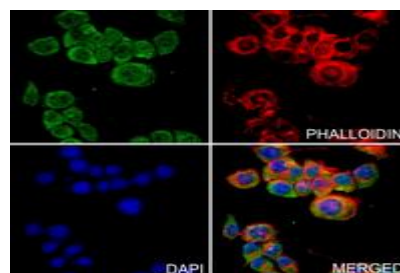
DATA:



Western blot analysis of PCK1 expression in H446 (A), rat kidney (B), rat testis (C) whole cell lysates.



Immunohistochemical analysis of PCK1 staining in rat liver formalin fixed paraffin embedded tissue section.



Immunofluorescent analysis of PCK1 staining in BV2 cells.

Note:

For research use only, not for use in diagnostic procedure.

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PRODUCT DATA SHEET

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