

Anti-PCK1 Antibody [PSH23-82]

HA724404



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Mouse, Rat
Applications:	WB
Molecular Wt:	Predicted band size: 69 kDa
Clone number:	PSH23-82

Description: Phosphoenolpyruvate carboxykinase 1 (soluble), also known as PCK1, is an enzyme which in humans is encoded by the PCK1 gene. This enzyme 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. The gene encoding PCK1 responds to thyroid hormones.

Immunogen: Synthetic peptide within human PCK1 aa 573-622.

Positive control: Mouse liver tissue lysate, Mouse kidney tissue lysate, Mouse brown adipose tissue lysate, Rat liver tissue lysate, Rat kidney tissue lysate.

Subcellular location: Cytoplasm, cytosol, Endoplasmic reticulum.

Database links: SwissProt: Q9Z2V4 Mouse | P07379 Rat

Recommended Dilutions:

WB 1:5,000

Storage Buffer: 1*PBS (pH7.4), 0.1% BSA, 40% Glycerol, 0.2% Proclean 950.

Storage Instruction: Shipped at 4℃. Store at +4℃ short term (1-2 weeks). Store at -20℃ long term.

Purity: Protein A affinity purified.

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Orders:0086-571-88062880

Technical:0086-571-89986345

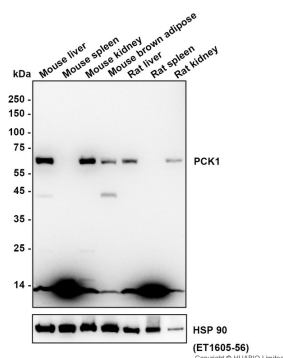
Service mail:support@huabio.cn

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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

Fig1: Western blot analysis of PCK1 on different lysates with Rabbit anti-PCK1 antibody (HA724404) at 1/5,000 dilution.



Lane 1: Mouse liver tissue lysate
 Lane 2: Mouse spleen tissue lysate
 Lane 3: Mouse kidney tissue lysate
 Lane 4: Mouse brown adipose tissue lysate
 Lane 5: Rat liver tissue lysate
 Lane 6: Rat spleen tissue lysate
 Lane 7: Rat kidney tissue lysate

Lysates/proteins at 30 µg/Lane.
 Exposure time: 40 seconds; ECL: K1801

Low expression: spleen (PMID: 36918564)

Blocking: 5% NFDM/TBST, 1 hour at room temperature
 Primary antibody: HA724404, 1/5,000 in primary antibody dilution buffer (K1803), overnight at 4 °C
 Secondary antibody: Goat anti-Rabbit IgG-HRP (HA1001), 1/50,000 in 5% NFDM/TBST, 1 hour at room temperature

Predicted band size: 69 kDa
 Observed band size: 69 kDa

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Liu L et al. Regulation of Pkc1 Hyper-Phosphorylation by Genotoxic Stress. J Fungi (Basel). 2021 Oct
2. Narayanan A et al. Sorbitol and PKC1 overexpression alleviate temperature sensitivity in chaperonin mutants of *Saccharomyces cerevisiae*. MicroPubl Biol. 2021 Aug

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