

Recombinant Human PCK1 293 Cell Lysate

Cat. No. PCK1-3379HCL Lot. No. (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for phosphoenolpyruvate carboxykinase 1 (soluble) (PCK1) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.
Applications	ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the

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mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name [PCK1 phosphoenolpyruvate carboxykinase 1 \(soluble\) \[Homo sapiens \]](#)

Official Symbol [PCK1](#)

Synonyms [PCK1](#); [phosphoenolpyruvate carboxykinase 1 \(soluble\)](#); [phosphoenolpyruvate carboxykinase, cytosolic \[GTP\]](#); [PEPCK C](#); [PEP carboxykinase](#); [phosphopyruvate carboxylase](#); [phosphoenolpyruvate carboxylase](#); [phosphoenolpyruvate carboxykinase, cytosolic](#); [PEPCK1](#); [PEPCKC](#); [PEPCK-C](#); [MGC22652](#);

Gene ID [5105](#)

mRNA Refseq [NM_002591](#)

Protein Refseq [NP_002582](#)

MIM [614168](#)

UniProt ID [P35558](#)

Chromosome Location [20q13.31](#)

Pathway [Adipocytokine signaling pathway, organism-specific biosystem](#); [Adipocytokine signaling pathway, conserved biosystem](#); [Adipogenesis, organism-specific biosystem](#); [Citrate cycle \(TCA cycle\), organism-specific biosystem](#); [Citrate cycle \(TCA cycle\), conserved biosystem](#); [Developmental Biology, organism-specific biosystem](#); [FOXA2 and FOXA3 transcription factor networks, organism-specific biosystem](#);

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Function

GDP binding; GTP binding; carboxylic acid binding; lyase activity; magnesium ion binding; manganese ion binding; phosphoenolpyruvate carboxykinase (GTP) activity; purine nucleotide binding;

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