Recombinant Human PKLR 293 Cell Lysate

Cat. No. PKLR-3154HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	HEK293
Description	Antigen standard for pyruvate kinase, liver and RBC (PKLR), nuclear gene encoding mitochondrial protein, transcript variant 1 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.

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

GENE INFORMATION

Gene Name	PKLR pyruvate kinase, liver and RBC [Homo sapiens]
Official Symbol	PKLR
Synonyms	PKLR; pyruvate kinase, liver and RBC; pyruvate kinase isozymes R/L; pyruvate kinase 1; pyruvate kinase type L; pyruvate kinase isozyme R/L; R-type/L-type pyruvate kinase; red cell/liver pyruvate kinase; pyruvate kinase, liver and blood cell; PK1; PKL; PKR; RPK; PKRL;
Gene ID	5313
mRNA Refseq	NM_000298
Protein Refseq	NP_000289
MIM	609712
UniProt ID	P30613
Chromosome Location	1q22
Pathway	ChREBP activates metabolic gene expression, organism-specific biosystem; Developmental Biology, organism-specific biosystem; FOXA2 and FOXA3 transcription factor networks, organism-specific biosystem; Glucose metabolism,

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	organism-specific biosystem; Glycolysis, organism-specific biosystem; Glycolysis / Gluconeogenesis, organism-specific biosystem; Glycolysis / Gluconeogenesis, conserved biosystem;
Function	ATP binding; magnesium ion binding; nucleotide binding; potassium ion binding; pyruvate kinase activity; transferase activity;

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