

Recombinant Human PKLR, His-tagged

Cat. No. PKLR-30455TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 47-574 of Human PKLR with an N terminal His tag; 549 amino acids with tag, Predicted MWt 59.2 kDa.
Species	Human
Source	E.coli
ProteinLength	528 amino acids
Description	The protein encoded by this gene is a pyruvate kinase that catalyzes the transphosphorylation of phohsphenolpyruvate into pyruvate and ATP, which is the rate-limiting step of glycolysis. Defects in this enzyme, due to gene mutations or genetic variations, are the common cause of chronic hereditary nonspherocytic hemolytic anemia (CNSHA or HNSHA). Multiple transcript variants encoding different isoforms have been found for this gene.
Conjugation	HIS
Molecular Weight	59.200kDa inclusive of tags
Form	Liquid
Purity	by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 10% Glycerol, 0.2M Sodium chloride, 20mM Tris

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	HCl, 1mM DTT, pH 8.0
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHSSGLVPRGSHMLTQELGTAFFQQQLPAAMADTFLEHLCLLDIDSE PVAARSTSIIATIGPASRSVERLKEMIKAGMNIARLNFSHGSHEYHAESIANVREAVES FAGSPLSYRPVAIALDTKGPEIRTGILQGGPESEVELVKGSQVLTVDPAFRTRGNA NTWVDYPNIVRVVPVGGRIYIDDGLISLVQKIGPEGLVTQVENGGVLGSRKGVNL PGAQVDLPGLSEQDVRDLRFGVEHGVDIVFASFVRKASDVAAVRAALGPEGHGIIKII SKIENHEGVKRFDEILEVSDGIMVARGDLGIEIPAEEKVFLAQKMMIGRCNLAGKPVVC ATQMLESMTKPRPTRAETSDVANAVLDGADCIMLSGETAKGNFPVEAVKMQHAIAR EAEAAVYHRQLFEELRRAAPLSRDPTEVTAIGAVEAAFKCCAAAIVLTTTGRSAQLL SRYRPRAAVIAVTRSAQAARQVHLCRGVFPLLYREPPEAIWADDVDRRVQFGIESG KLRGFLRVGDLVIVVTGWRPGSGYTNIMRVLSIS
Sequence Similarities	Belongs to the pyruvate kinase family.

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;
Gene ID	5313
mRNA Refseq	NM_000298

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

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