

Recombinant Human PKLR Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PKLR-2785H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PKLR MS Standard C13 and N15-labeled recombinant protein (NP_000289) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The protein encoded by this gene is a pyruvate kinase that catalyzes the transphosphorylation of phohosphoenolpyruvate 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.
Molecular Mass	61.8 kDa
AA Sequence	MSIQENISSQLRSLWVSKSQRD LAKSILIGAPGGPAGYLRRASVAQLTQELGTAFFQ QQQLPAAMADTFLEHLCLLDIDSEPVAARSTSIATIGPASRSVERLKEMIKAGMNIAR LNFSHGSHEYHAESIANVREAVESFAGSPLSYRPVAIALDTKGPEIRTGILQGGPESE VELVKGSQVLTVDPAFRTRGNANTVWVDYPNIVRVVPVGGRIYIDDGLISLVVQKIG PEGLVTQVENGGLVLSRKGVNLPGAQVDLPGLSEQDVRDLRFGVEHGVDIVFASFV RKASDVAAVRAALGPEGHGIKIISKIENHEGVKRFDEILEVSDGIMVARGDLGIEIPAE KVFLAQKMMIGRCNLAGKPVVCATQMLESMITKPRPTRAETSDVANAVLDGADCIML

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SGETAKGNFPVEAVKMQHAIAREAEAAVYHRQLFEELRRAAPLSRDPTEVTAIGAVE
AAFKCCAAAIIIVLT TTTGRSAQLLSRYRPRAAVIAVTRSAQAARQVHLCRGVFP LLYRE
PPEAIWADDVDRRVQFGIESGKLRGFLRVGDLVIVVTGW RPPGSGYTNIMRVLSISTR
TRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name PKLR pyruvate kinase L/R [Homo sapiens (human)]

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

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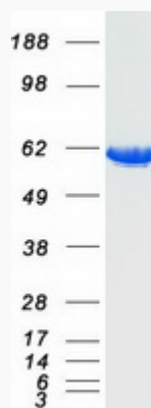
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Protein Refseq NP_000289

MIM 609712

UniProt ID P30613

SDS-PAGE



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