

## Product datasheet for TP306455

### Pyruvate Kinase (PKLR) (NM\_000298) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human pyruvate kinase, liver and RBC (PKLR), nuclear gene encoding mitochondrial protein, transcript variant 1, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC206455 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MSIQENISSLQLRSWVSKSQRD LAKSILIGAPGGPAGYLRRASVAQLTQELGTAFFQQQLPAAMADTFL  
EHLCLLDIDSEPVAARSTSIITIGPASRSVERLKEMIKAGMNIARLNFSHGSHEYHAESIANVREAVES  
FAGSPLSYRPVAIALDTKGPEIRTGILQGGPESEVELVKSQVLVTVDPAFRTRGNANTVWVDYPNIVRV  
VPVGGRIYIDDGLISLVQKIGPEGLVTQVENGGVLGSRKGVNLPGAQVDLPGLSEQDVRDLRFGEVHG  
DIVFASFVRKASDVAAVRAALGPEGHGIKIISKIENHEGVKRFDEILEVSDGIMVARGDLGIEIPA  
EKVF LAQKMMIGRCNLAGKPVVCATQMLES MITKPRPTRAETSDVANAVLDGADCIMLSGETAKGNFP  
VEAVK M  
QHAIAREAAVYHRQLFEELRRAAPLSRDPTEVTAIGAVEAAFKCCAAAIIVLTTTGRSAQLLSRYRPR  
AAVIAVTRSAQAARQVHLRCRGVFP LLYREPPEAIWADDVDRRVQFGIESGKLRGFLRVGDLVIVVTGWRP  
GSGYTNIMRVLSIS

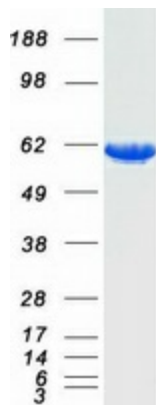
**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-Myc/DDK
Predicted MW:	61.6 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<u>NP_000289</u>
<b>Locus ID:</b>	5313
<b>UniProt ID:</b>	<u>P30613</u>
<b>RefSeq Size:</b>	3053
<b>Cytogenetics:</b>	1q22
<b>RefSeq ORF:</b>	1722
<b>Synonyms:</b>	PK1; PKL; PKRL; RPK
<b>Summary:</b>	The protein encoded by this gene is a pyruvate kinase that catalyzes the transphosphorylation of phosphoenolpyruvate 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. [provided by RefSeq, Jul 2008]
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Glycolysis / Gluconeogenesis, Insulin signaling pathway, Maturity onset diabetes of the young, Metabolic pathways, Purine metabolism, Pyruvate metabolism, Type II diabetes mellitus

**Product images:**

Coomassie blue staining of purified PKLR protein (Cat# TP306455). The protein was produced from HEK293T cells transfected with PKLR cDNA clone (Cat# [RC206455]) using MegaTran 2.0 (Cat# [TT210002]).