

# Recombinant Human PKLR Protein, His-tagged

**Cat. No.** PKLR-207H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human PKLR(Ile219~Met420) fused with His tag at N-terminal was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>ProteinLength</b>    | Ile219~Met420                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>      | 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. |
| <b>Form</b>             | PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Molecular Mass</b>   | 25.2kDa                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Identity</b>         | Reconstitute in PBS or others                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Endotoxin</b>        | <1.0EU per 1g (determined by the LAL method)                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Purity</b>           | > 95%                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applications</b>   | Positive Control; Immunogen; SDS-PAGE; WB.<br>If bio-activity of the protein is needed, please check active protein                                                                                                                                                                                                                          |
| <b>Stability</b>      | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.                                                                                                                                                                                                                 |
| <b>Reconstitution</b> | Reconstitute in PBS or others                                                                                                                                                                                                                                                                                                                |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                             |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | PKLR pyruvate kinase, liver and RBC [ Homo sapiens ]                                                                                                                                                                                                                        |
| <b>Official Symbol</b> | PKLR                                                                                                                                                                                                                                                                        |
| <b>Synonyms</b>        | 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; |
| <b>Gene ID</b>         | 5313                                                                                                                                                                                                                                                                        |
| <b>mRNA Refseq</b>     | NM_000298                                                                                                                                                                                                                                                                   |
| <b>Protein Refseq</b>  | NP_000289                                                                                                                                                                                                                                                                   |
| <b>MIM</b>             | 609712                                                                                                                                                                                                                                                                      |

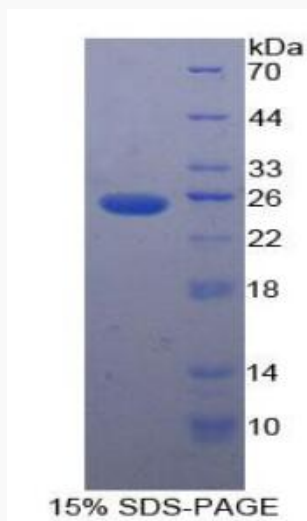
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UniProt ID

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