abcam

Product datasheet

# Anti-PKLR antibody ab137787

2 References 3 Images

## Overview

| | |
|---|---|
| **Product name** | Anti-PKLR antibody |
| **Description** | Rabbit polyclonal to PKLR |
| **Host species** | Rabbit |
| **Tested applications** | **Suitable for:** WB |
| **Species reactivity** | **Reacts with:** Mouse, Rat, Human |
| **Immunogen** | Recombinant fragment, corresponding to a region within amino acids 254-574 of Human PKLR |
| **Positive control** | Jurkat, Raji, K562, THP-1 and NCI-H929 cell extracts; Mouse and Rat liver extracts |
| **General notes** | The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.<br>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As |

## Properties

| | |
|---|---|
| **Form** | Liquid |
| **Storage instructions** | Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. |
| **Storage buffer** | pH: 7.00<br>Preservative: 0.01% Thimerosal (merthiolate)<br>Constituents: 1.21% Tris, 0.75% Glycine, 10% Glycerol (glycerin, glycerine) |
| **Purity** | Immunogen affinity purified |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |

## Applications

| | |
|---|---|
| **The Abpromise guarantee** | Our **Abpromise guarantee** covers the use of ab137787 in the following tested applications. |

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|---|---|---|
| **WB** | | 1/500 - 1/3000. Predicted molecular weight: 62 kDa. |

## Target

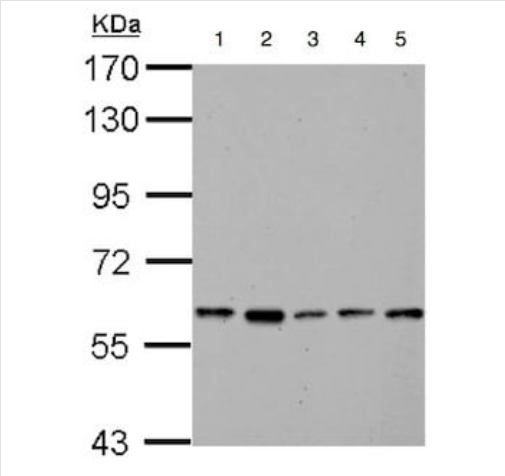
**Function** Plays a key role in glycolysis.

**Pathway** Carbohydrate degradation; glycolysis; pyruvate from D-glyceraldehyde 3-phosphate: step 5/5.

**Involvement in disease** Defects in PKLR are the cause of pyruvate kinase hyperactivity (PKHYP) [MIM:102900]; also known as high red cell ATP syndrome. This autosomal dominant phenotype is characterized by increase of red blood cell ATP.
Defects in PKLR are the cause of pyruvate kinase deficiency of red cells (PKRD) [MIM:266200]. A frequent cause of hereditary non-spherocytic hemolytic anemia. Clinically, pyruvate kinase-deficient patients suffer from a highly variable degree of chronic hemolysis, ranging from severe neonatal jaundice and fatal anemia at birth, severe transfusion-dependent chronic hemolysis, moderate hemolysis with exacerbation during infection, to a fully compensated hemolysis without apparent anemia.

**Sequence similarities** Belongs to the pyruvate kinase family.

## Images




Western blot - Anti-PKLR antibody (ab137787)

**All lanes :** Anti-PKLR antibody (ab137787) at 1/1000 dilution

**Lane 1 :** Jurkat cell extract

**Lane 2 :** Raji cell extract

**Lane 3 :** K562 cell extract

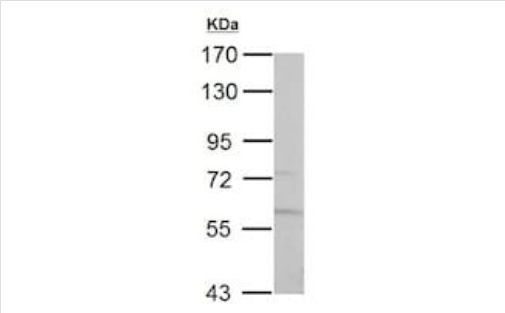
**Lane 4 :** THP-1 cell extract

**Lane 5 :** NCI-H929 cell extract

Lysates/proteins at 30 µg per lane.

**Predicted band size:** 62 kDa

7.5% SDS PAGE

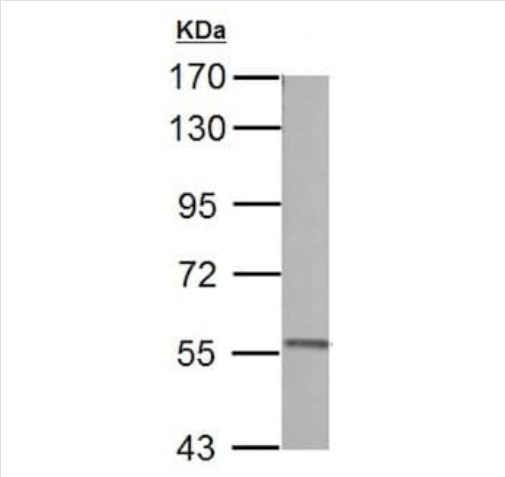



Western blot - Anti-PKLR antibody (ab137787)

Anti-PKLR antibody (ab137787) at 1/500 dilution + Mouse liver extract at 50 µg

**Predicted band size:** 62 kDa

7.5% SDS PAGE




Western blot - Anti-PKLR antibody (ab137787)

Anti-PKLR antibody (ab137787) at 1/500 dilution + Rat liver extract at 50 µg

**Predicted band size:** 62 kDa

7.5% SDS PAGE

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

## Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.com/abpromise** or contact our technical team.

## Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors