abcam

# Product datasheet

# Anti-PKLR antibody ab38240

2 References 2 Images

## Overview

| | |
|---|---|
| **Product name** | Anti-PKLR antibody |
| **Description** | Rabbit polyclonal to PKLR |
| **Tested applications** | **Suitable for:** WB, IHC-P, ELISA |
| **Species reactivity** | **Reacts with:** Mouse, Human |
| **Immunogen** | Synthetic peptide:<br>SSLQLRSWVSKSQRD<br>(Human) conjugated to KLH<br>Run BLAST with Run BLAST with |
| **Positive control** | Breast carcinoma tissue and NIH/3T3 cell lysate |

## Properties

| | |
|---|---|
| **Form** | Liquid |
| **Storage instructions** | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. |
| **Storage buffer** | Preservative: 0.05% Sodium Azide<br>Constituents: PBS |
| **Purity** | Protein G purified |
| **Purification notes** | This antibody is purified through a protein G column, eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS. |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |

## Applications

Our Abpromise guarantee covers the use of **ab38240** 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 | | 1/100 - 1/500. Detects a band of approximately 62 kDa (predicted molecular weight: 62 kDa). |
| IHC-P | | 1/50 - 1/100. |
| ELISA | | 1/1000. |

## Target

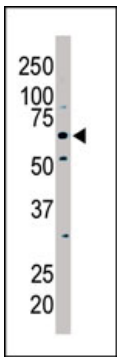
**Function**
Plays a key role in glycolysis.

**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.

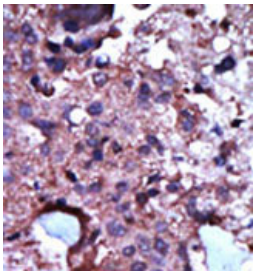
## Images




Western blot - PKLR antibody (ab38240)

Anti-PKLR antibody (ab38240) at 1/100 dilution + NIH/3T3 cell lysate

**Predicted band size :** 62 kDa
**Observed band size :** 62 kDa
**Additional bands at :** 30 kDa,50 kDa,90 kDa. We are unsure as to the identity of these extra bands.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - PKLR antibody (ab38240)

Formalin-fixed and paraffin-embedded human breast cancer tissue stained with ab38240 at a 1/50 dilution, using a peroxidase-conjugated secondary antibody, followed by AEC staining.

This data demonstrates the suitability of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



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