

Product datasheet

Anti-PKLR antibody ab38240

3 References 2 Images

Overview

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

Properties

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

Applications

Our [Abpromise guarantee](#) covers the use of **ab38240** in the following tested applications.

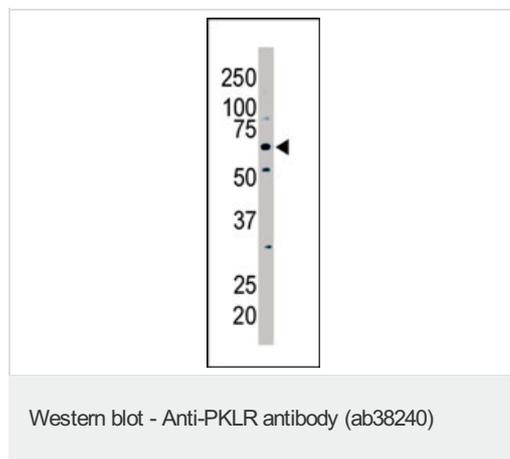
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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

<b>Function</b>	Plays a key role in glycolysis.
<b>Pathway</b>	Carbohydrate degradation; glycolysis; pyruvate from D-glyceraldehyde 3-phosphate: step 5/5.
<b>Involvement in disease</b>	<p>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.</p> <p>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.</p>
<b>Sequence similarities</b>	Belongs to the pyruvate kinase family.

## Images

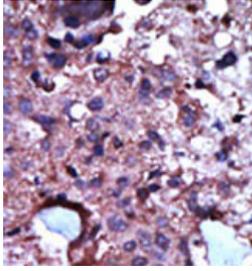


Anti-PKLR antibody (ab38240) at 1/100 dilution + NIH/3T3 cell lysate

**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) - Anti-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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