

Product datasheet

Anti-PGK1 antibody ab154613

★★★★★ [2 Abreviews](#) [2 References](#) [6 Images](#)

Overview

Product name	Anti-PGK1 antibody
Description	Rabbit polyclonal to PGK1
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF
Species reactivity	Reacts with: Mouse, Rat, Human, Saccharomyces cerevisiae
Immunogen	A recombinant fragment corresponding to a region within amino acids 1-217 of Human PGK1 (Uniprot ID P00558).
Positive control	A549, HeLa, mouse brain and rat liver whole cell lysates. Yeast wild type 303. HeLa cells. Human hepatoma tissue.
General notes	<p>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.</p> <p>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</p>

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 Preservative: 0.025% Proclin 300 Constituents: 79% PBS, 20% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab154613 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	★★★★★ (2)	1/500 - 1/3000. Predicted molecular weight: 45 kDa.
IHC-P		1/100 - 1/1000.
ICC/IF		1/100 - 1/1000.

Target

Function

In addition to its role as a glycolytic enzyme, it seems that PGK-1 acts as a polymerase alpha cofactor protein (primer recognition protein).

Pathway

Carbohydrate degradation; glycolysis; pyruvate from D-glyceraldehyde 3-phosphate: step 2/5.

Involvement in disease

Defects in PGK1 are the cause of phosphoglycerate kinase 1 deficiency (PGK1D) [MIM:300653]. It is a condition with a highly variable clinical phenotype that includes hemolytic anemia, rhabdomyolysis, myopathy and neurologic involvement. Patients can express one or more of these manifestations.

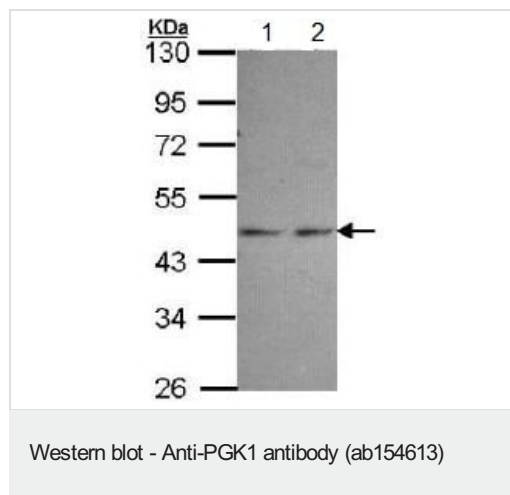
Sequence similarities

Belongs to the phosphoglycerate kinase family.

Cellular localization

Cytoplasm.

Images



All lanes : Anti-PGK1 antibody (ab154613) at 1/1000 dilution

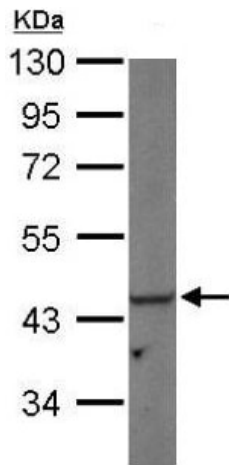
Lane 1 : A549 whole cell lysate

Lane 2 : HeLa whole cell lysate

Lysates/proteins at 30 µg per lane.

Predicted band size: 45 kDa

10% SDS PAGE

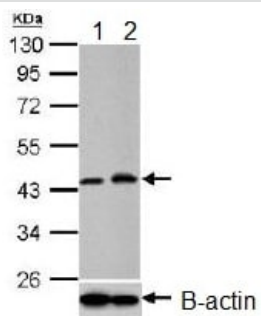


Western blot - Anti-PGK1 antibody (ab154613)

Anti-PGK1 antibody (ab154613) at 1/1000 dilution + Mouse brain whole cell lysate at 50 μ g

Predicted band size: 45 kDa

10% SDS PAGE



Western blot - Anti-PGK1 antibody (ab154613)

All lanes : Anti-PGK1 antibody (ab154613) at 1/1000 dilution

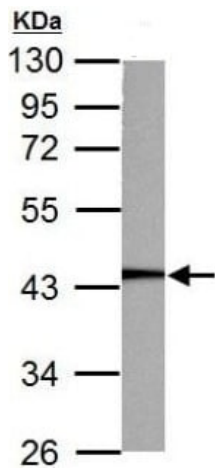
Lane 1 : HeLa whole cell lysate (untreated)

Lane 2 : HeLa whole cell lysate (1% O₂ treatment for 24hr)

Lysates/proteins at 30 μ g per lane.

Predicted band size: 45 kDa

10% SDS PAGE

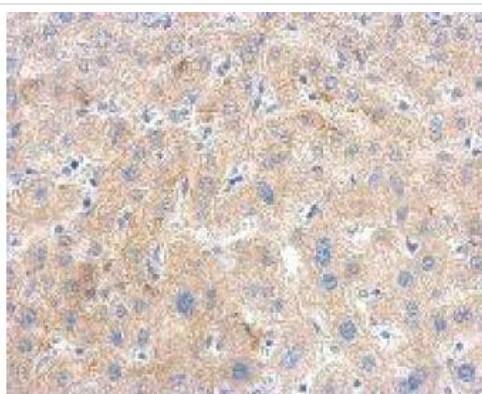


Western blot - Anti-PGK1 antibody (ab154613)

Anti-PGK1 antibody (ab154613) at 1/1000 dilution + Rat liver whole cell lysate at 50 µg

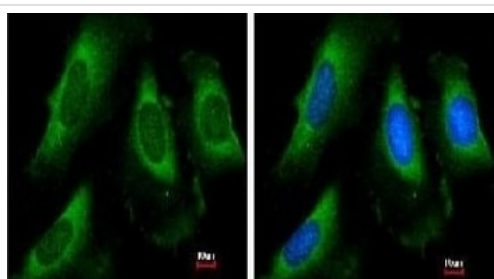
Predicted band size: 45 kDa

10% SDS PAGE



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PGK1 antibody (ab154613)

Immunohistochemical analysis of paraffin-embedded human Hepatoma, labeling PGK1 using ab154613 at 1/500 dilution.



Immunocytochemistry/ Immunofluorescence - Anti-PGK1 antibody (ab154613)

Immunofluorescence analysis of methanol-fixed HeLa cells, labeling PGK1 using ab154613 at 1/50 dilution. Right panel costained with Hoechst 33342.

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

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