


Product datasheet

Anti-PGK1 antibody ab38007

★★★★☆ 2 Abreviews 14 References 3 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, Human Predicted to work with: Saccharomyces cerevisiae 
Immunogen	Synthetic peptide conjugated to KLH selected within aa 100~200 of human PGK1.
General notes	<p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.</p> <p>In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.</p> <p>Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.</p> <p>Please check that this product meets your needs before purchasing. 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, as well as customer reviews and Q&As.</p>

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: 0.09% Sodium azide Constituent: PBS
Purity	Protein G purified
Purification notes	This antibody is purified through a protein G column, eluted out with both high and low pH buffers, neutralized immediately after elution then followed by dialysis against PBS.
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab38007** in the following tested applications.

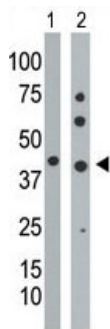
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/100 - 1/500. Predicted molecular weight: 44 kDa.
IHC-P		1/50 - 1/100.
ICC/IF		Use a concentration of 5 µg/ml.

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



Western blot - Anti-PGK1 antibody (ab38007)

All lanes : Anti-PGK1 antibody (ab38007) at 1/100 dilution

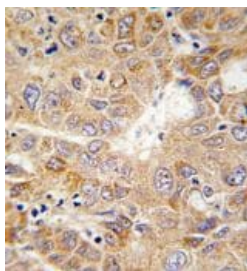
Lane 1 : Mouse stomach tissue lysate

Lane 2 : HepG2 cell lysate

Predicted band size: 44 kDa

Observed band size: 44 kDa

Additional bands at: 60 kDa, 75 kDa. We are unsure as to the identity of these extra bands.



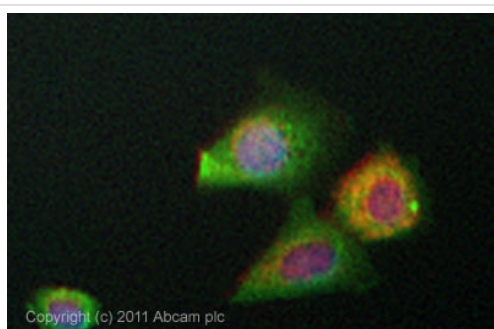
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PGK1 antibody (ab38007)

ab38007 at 1/100 dilution staining PGK1 in human

Hepatocarcinoma tissue section by Immunohistochemistry

(Formalin/ PFA fixed paraffin-embedded sections). A peroxidase

conjugated secondary antibody was used followed by DAB staining.



Immunocytochemistry/ Immunofluorescence - Anti-PGK1 antibody (ab38007)

ICC/IF image of ab38007 stained MCF7 cells. The cells were 4%

formaldehyde fixed (10 min) and then incubated in 1%BSA / 10%

normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to

permeabilise the cells and block non-specific protein-protein

interactions. The cells were then incubated with the antibody

(ab38007, 5µg/ml) overnight at +4°C. The secondary antibody

(green) was [ab96899](#), DyLight® 488 goat anti-rabbit IgG (H+L)

used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to

label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was

used to stain the cell nuclei (blue) at a concentration of 1.43µM.

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