




Anti-PGK1 antibody ab233135

[1 References](#) [8 Images](#)

Overview

Product name	Anti-PGK1 antibody
Description	Rabbit polyclonal to PGK1
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB, ICC/IF
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat, Horse, Cow, Pig, Chimpanzee, Cynomolgus monkey, Chinese hamster, Orangutan 
Immunogen	Recombinant full length protein (His-T7-tag) corresponding to Human PGK1 aa 1 to the C-terminus. Two N-terminal tags. Expressed in E.coli. Database link: P00558 <div>  Run BLAST with  Run BLAST with </div>
Positive control	WB: Recombinant human PGK1 protein; HeLa, HepG2 and HEK-293T cell lysates. IHC-P: Human cerebrum, colorectal cancer, glioma, liver and kidney tissue. ICC/IF: HeLa cells.
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. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.011% Proclin 300 Constituents: 55.77% Glycerol (glycerin, glycerine), 44.219% PBS
Purity	Immunogen affinity purified
Purification notes	Antigen-specific affinity chromatography followed by Protein A affinity chromatography.

Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab233135 in the following tested applications.

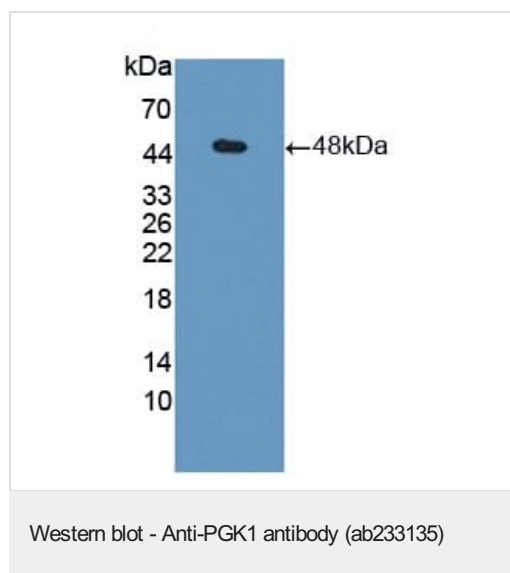
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use a concentration of 5 - 20 µg/ml.
WB		Use a concentration of 0.5 - 2 µg/ml. Predicted molecular weight: 45 kDa.
ICC/IF		Use a concentration of 5 - 20 µg/ml.

Target

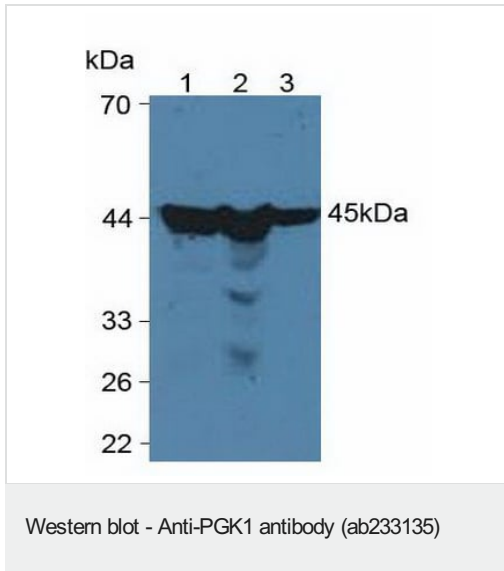
Function	In addition to its role as a glycolytic enzyme, it seems that PGK-1 acts as a polymerase alpha cofactor protein (primer recognition protein).
Pathway	Carbohydrate degradation; glycolysis; pyruvate from D-glyceraldehyde 3-phosphate: step 2/5.
Involvement in disease	Defects in PGK1 are the cause 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



Anti-PGK1 antibody (ab233135) at 2 µg/ml + Recombinant human PGK1 protein

Predicted band size: 45 kDa



All lanes : Anti-PGK1 antibody (ab233135) at 1 µg/ml

Lane 1 : HeLa (human epithelial cell line from cervix adenocarcinoma) cell lysate

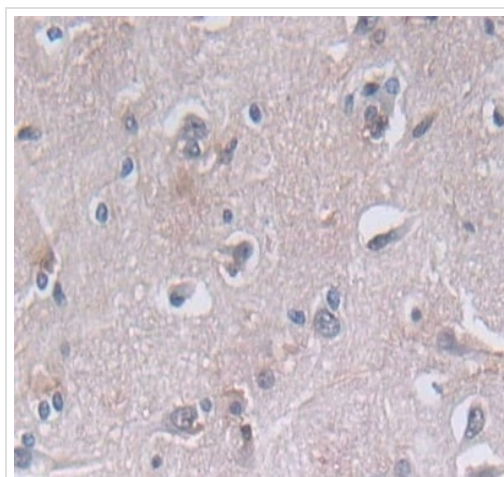
Lane 2 : HepG2 (human liver hepatocellular carcinoma cell line) cell lysate

Lane 3 : HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) cell lysate

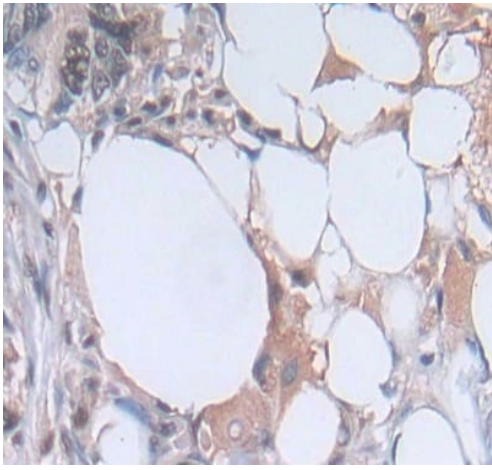
Secondary

All lanes : HRP-Linked Guinea pig anti-Rabbit at 1/2000 dilution

Predicted band size: 45 kDa

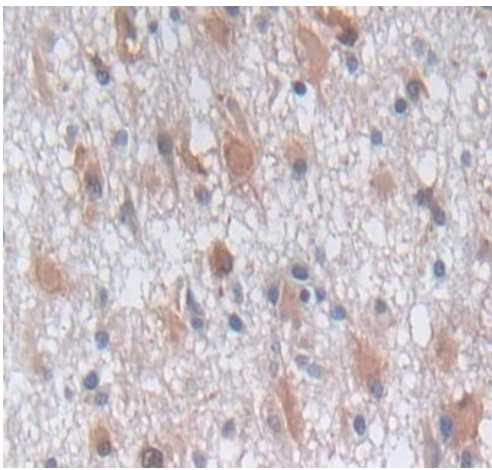


Formalin-fixed, paraffin-embedded human cerebrum tissue stained for PGK1 using ab233135 at 20 µg/ml in immunohistochemical analysis. DAB staining.



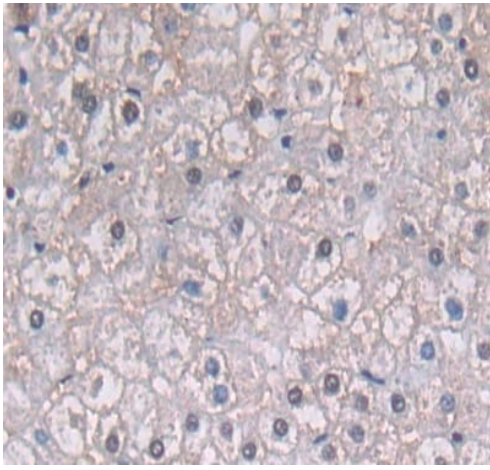
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PGK1 antibody (ab233135)

Formalin-fixed, paraffin-embedded human colorectal cancer tissue stained for PGK1 using ab233135 at 20 µg/ml in immunohistochemical analysis. DAB staining.



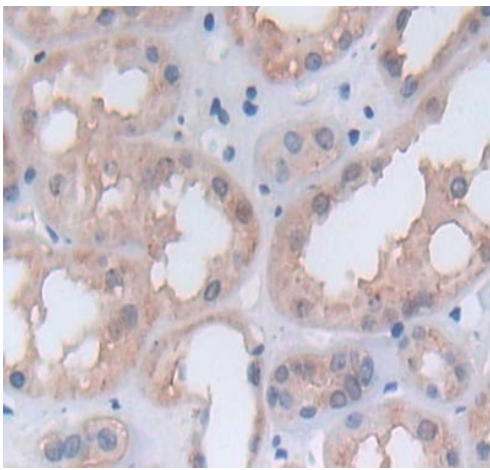
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PGK1 antibody (ab233135)

Formalin-fixed, paraffin-embedded human glioma tissue stained for PGK1 using ab233135 at 20 µg/ml in immunohistochemical analysis. DAB staining.



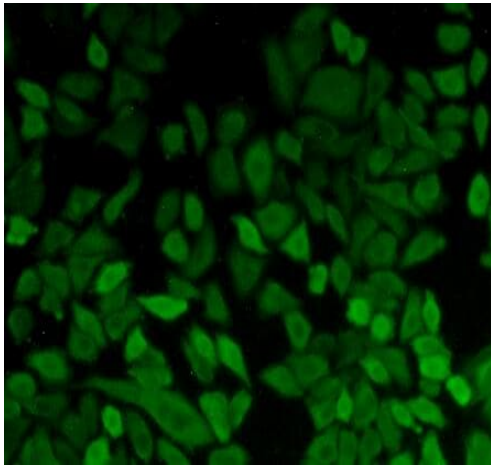
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PGK1 antibody (ab233135)

Formalin-fixed, paraffin-embedded human liver tissue stained for PGK1 using ab233135 at 20 $\mu\text{g/ml}$ in immunohistochemical analysis. DAB staining.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PGK1 antibody (ab233135)

Formalin-fixed, paraffin-embedded human kidney tissue stained for PGK1 using ab233135 at 20 $\mu\text{g/ml}$ in immunohistochemical analysis. DAB staining.



Immunocytochemistry/ Immunofluorescence - Anti-PGK1 antibody (ab233135)

HeLa (human epithelial cell line from cervix adenocarcinoma) cells stained for PGK1 (green) using ab233135 at 20 µg/ml in ICC/IF. FITC labeling.

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

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