

### HRP Anti-PGK1 antibody [22C5D8] ab197960

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#### Overview

<b>Product name</b>	HRP Anti-PGK1 antibody [22C5D8]
<b>Description</b>	HRP Mouse monoclonal [22C5D8] to PGK1
<b>Host species</b>	Mouse
<b>Conjugation</b>	HRP
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human, <i>Saccharomyces cerevisiae</i>
<b>Immunogen</b>	Full length native protein (purified) corresponding to PGK1.
<b>Positive control</b>	WB: <i>Saccharomyces cerevisiae</i> (Y190) cell lysate. IHC-P: FFPE human colon tissue sections.
<b>General notes</b>	<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&amp;As</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot. Store at +4°C. Avoid freeze / thaw cycle. Store In the Dark.
<b>Storage buffer</b>	<p>pH: 7.40</p> <p>Preservative: 0.1% Proclin 300 Solution</p> <p>Constituents: 30% Glycerol (glycerin, glycerine), 1% BSA, PBS</p>
<b>Purity</b>	Proprietary Purification
<b>Purification notes</b>	Near homogeneity (Purity >95% by SDS-PAGE). The antibody was produced in vitro using hybridomas grown in serum-free medium, and then purified by chemical fractionation.
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	22C5D8
<b>Isotype</b>	IgG1
<b>Light chain type</b>	kappa

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab197960 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		1/5000. Detects a band of approximately 45 kDa (predicted molecular weight: 45 kDa).
IHC-P		1/70 - 1/80. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

## 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.

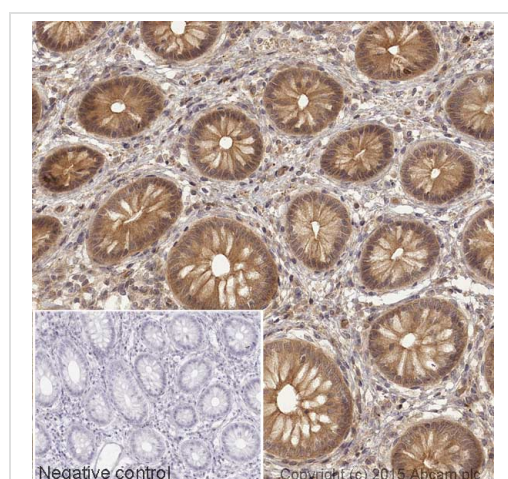
### Sequence similarities

Belongs to the phosphoglycerate kinase family.

### Cellular localization

Cytoplasm.

## Images

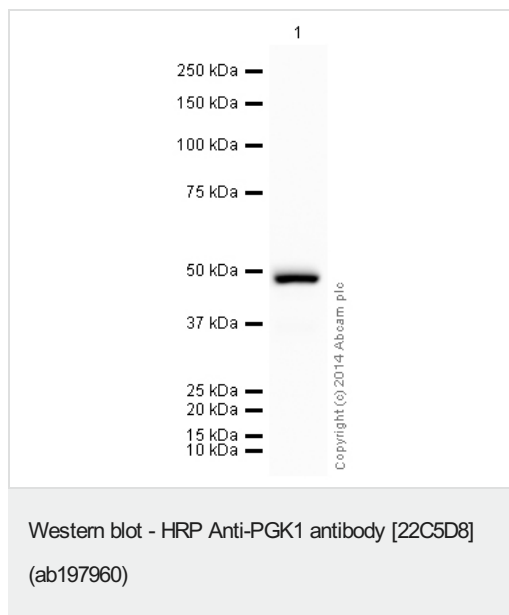


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - HRP Anti-PGK1 antibody [22C5D8] (ab197960)

IHC image of PGK1 staining in a section of formalin-fixed paraffin-embedded human normal colon\*. The section was pre-treated using pressure cooker heat mediated antigen retrieval with sodium citrate buffer (pH6) for 30mins, and incubated overnight at +4°C with ab197960 at 1/71 dilution. DAB was used as the chromogen (**ab103723**), diluted 1/100 and incubated for 10min at room temperature. The section was counterstained with haematoxylin and mounted with DPX. The inset negative control image is taken from an identical assay without primary antibody.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

*\*Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre*



HRP Anti-PGK1 antibody [22C5D8] (ab197960) at 1/5000 dilution  
+ *S.cerevisiae* (Y190) Whole Cell Lysate at 20 µg

Developed using the ECL technique.

Performed under reducing conditions.

**Predicted band size:** 45 kDa

**Observed band size:** 45 kDa

**Exposure time:** 1 minute

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 3% milk before being incubated with ab197960 overnight at 4°C. Antibody binding was visualised using ECL development solution **ab133406**.

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

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