

**PGM1 Antibody (Center)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP21905c**

**Specification**

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**PGM1 Antibody (Center) - Product Information**

Application	<b>WB, IHC-P,E</b>
Primary Accession	<a href="#">P36871</a>
Other Accession	<a href="#">Q4R5E4</a> , <a href="#">Q9D0F9</a> , <a href="#">P00949</a> , <a href="#">P38652</a>
Reactivity	<b>Human, Mouse</b>
Predicted	<b>Monkey, Rabbit, Rat</b>
Host	<b>Rabbit</b>
Clonality	<b>polyclonal</b>
Isotype	<b>Rabbit IgG</b>
Calculated MW	<b>61449</b>

**PGM1 Antibody (Center) - Additional Information**

**Gene ID** 5236

**Other Names**

Phosphoglucomutase-1, PGM 1, Glucose phosphomutase 1, PGM1

**Target/Specificity**

This PGM1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 251-282 amino acids from the Central region of human PGM1.

**Dilution**

WB~~1:2000

IHC-P~~1:25

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

PGM1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**PGM1 Antibody (Center) - Protein Information**

**Name** PGM1

**Function** Catalyzes the reversible isomerization of alpha-D-glucose 1- phosphate to

alpha-D-glucose 6-phosphate (PubMed:[15378030](#), PubMed:[25288802](#)). The mechanism proceeds via the intermediate compound alpha-D-glucose 1,6-bisphosphate (Probable) (PubMed:[25288802](#)). This enzyme participates in both the breakdown and synthesis of glucose (PubMed:[17924679](#), PubMed:[25288802](#)).

### Cellular Location

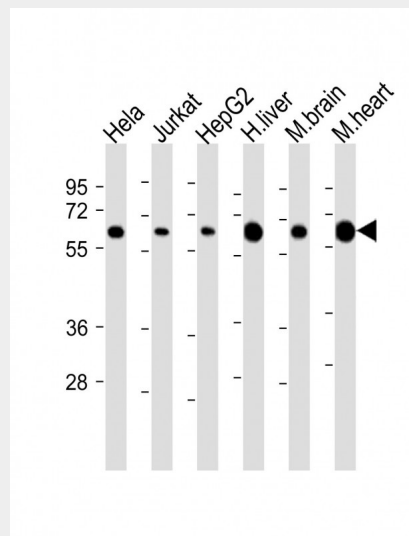
[Isoform 1]: Cytoplasm.

### PGM1 Antibody (Center) - Protocols

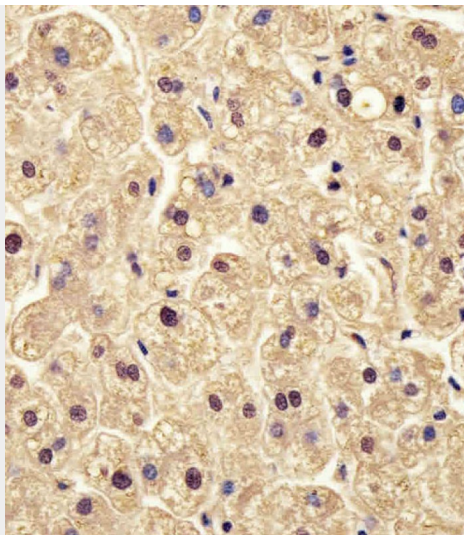
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### PGM1 Antibody (Center) - Images



All lanes : Anti-PGM1 Antibody (Center) at 1:2000 dilution Lane 1: HeLa whole cell lysate Lane 2: Jurkat whole cell lysate Lane 3: HepG2 whole cell lysate Lane 4: human liver lysate Lane 5: mouse brain lysate Lane 6: mouse heart lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 61 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



AP21905c staining PGM1 in human liver tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0.5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hour at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.

#### **PGM1 Antibody (Center) - Background**

This enzyme participates in both the breakdown and synthesis of glucose.

#### **PGM1 Antibody (Center) - References**

- Whitehouse D.B., et al. Proc. Natl. Acad. Sci. U.S.A. 89:411-415(1992).
- Kalnina N., et al. Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.
- Ota T., et al. Nat. Genet. 36:40-45(2004).
- Gregory S.G., et al. Nature 441:315-321(2006).
- Putt W., et al. Biochem. J. 296:417-422(1993).