

**PGK1 Antibody (Center S320)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AW5171**

**Specification**

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**PGK1 Antibody (Center S320) - Product Information**

Application	WB, IHC-P,E
Primary Accession	<a href="#">P00558</a>
Other Accession	<a href="#">Q60HD8</a> , <a href="#">Q5J7W1</a>
Reactivity	Human, Mouse
Predicted	Monkey
Host	Rabbit
Clonality	Polyclonal
Calculated MW	H=45;M=45;Rat=45 KDa
Isotype	Rabbit IgG
Antigen Source	HUMAN

**PGK1 Antibody (Center S320) - Additional Information**

**Gene ID** 5230

**Antigen Region**  
305-334

**Other Names**

PGK1; PGKA; Phosphoglycerate kinase 1; Cell migration-inducing gene 10 protein; Primer recognition protein 2

**Dilution**

WB~~1:1000  
IHC-P~~1:10~50

**Target/Specificity**

This PGK1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 305-334 amino acids from the Central region of human PGK1.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**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**

PGK1 Antibody (Center S320) is for research use only and not for use in diagnostic or therapeutic procedures.

**PGK1 Antibody (Center S320) - Protein Information**

**Name** PGK1

**Synonyms** PGKA

**Function**

Catalyzes one of the two ATP producing reactions in the glycolytic pathway via the reversible conversion of 1,3- diphosphoglycerate to 3-phosphoglycerate (PubMed:<a href="http://www.uniprot.org/citations/30323285" target="\_blank">30323285</a>, PubMed:<a href="http://www.uniprot.org/citations/7391028" target="\_blank">7391028</a>). In addition to its role as a glycolytic enzyme, it seems that PGK-1 acts as a polymerase alpha cofactor protein (primer recognition protein) (PubMed:<a href="http://www.uniprot.org/citations/2324090" target="\_blank">2324090</a>). May play a role in sperm motility (PubMed:<a href="http://www.uniprot.org/citations/26677959" target="\_blank">26677959</a>).

**Cellular Location**

Cytoplasm.

**Tissue Location**

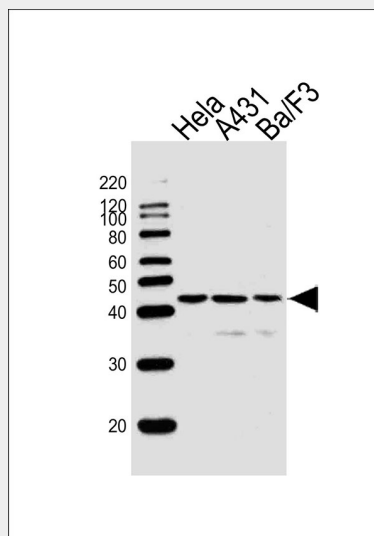
Mainly expressed in spermatogonia. Localized on the principle piece in the sperm (at protein level). Expression significantly decreased in the testis of elderly men

**PGK1 Antibody (Center S320) - Protocols**

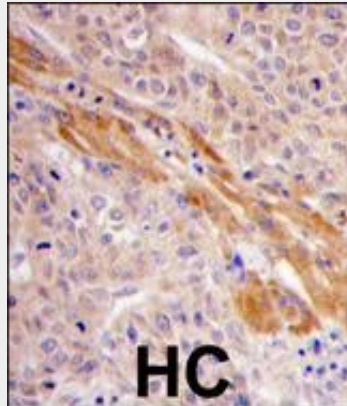
Provided below are standard protocols that you may find useful for product applications.

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

**PGK1 Antibody (Center S320) - Images**



Western blot analysis of lysates from Hela,A431,mouse Ba/F3 cell line (from left to right), using PGK1 Antibody (S320)(Cat. #AW5171). AW5171 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.Lysates at 20ug per lane.



Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with PGK1 Antibody (Center S320)(Cat.#AW5171), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

#### **PGK1 Antibody (Center S320) - Background**

Also known as ATP:3-phosphoglycerate 1-phosphotransferase, this major enzyme in glycolysis catalyzes the reversible conversion of 1,3-diphosphoglycerate to 3-phosphoglycerate, generating one molecule of ATP. Phosphoglycerate kinase not only functions in glycolysis but is secreted by tumor cells and is proposed to participate in the angiogenic process as a disulfide reductase. Mutations in PGK1 may be associated with hemolytic anemia.

#### **PGK1 Antibody (Center S320) - References**

- Shetty, S., et al., Am. J. Respir. Cell Mol. Biol. 31(1):100-106 (2004).
- Daly, E.B., et al., Biochim. Biophys. Acta 1691(1):17-22 (2004).
- Daly, E.B., et al., Int. J. Biol. Markers 19(2):170-172 (2004).
- Saito, Y., et al., Biochem. Biophys. Res. Commun. 314(2):396-402 (2004).
- Krishnan, P., et al., J. Biol. Chem. 278(38):36726-36732 (2003).