

**PGK2 Antibody (N-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP7170a**

**Specification**

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**PGK2 Antibody (N-term) - Product Information**

Application	WB, IHC-P,E
Primary Accession	<a href="#">P07205</a>
Other Accession	<a href="#">Q4R3K4</a>
Reactivity	Human
Predicted	Monkey
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	44796
Antigen Region	117-145

**PGK2 Antibody (N-term) - Additional Information**

**Gene ID** 5232

**Other Names**

Phosphoglycerate kinase 2, Phosphoglycerate kinase, testis specific, PGK2, PGKB

**Target/Specificity**

This PGK2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 117-145 amino acids from the N-terminal region of human PGK2.

**Dilution**

WB~~1:1000

IHC-P~~1:50~100

**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**

PGK2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**PGK2 Antibody (N-term) - Protein Information**

**Name** PGK2

**Synonyms** PGKB

**Function** Essential for sperm motility and male fertility (PubMed:[26677959](#)). Not required for the completion of spermatogenesis (By similarity).

**Cellular Location**

Cytoplasm.

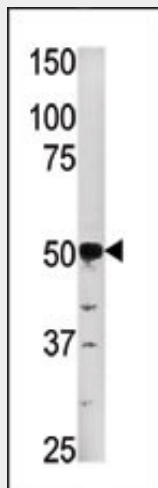
**Tissue Location**

Mainly found in round spermatids. Localized on the principle piece in the sperm (at protein level). Testis-specific Expression significantly decreased in the testis of elderly men

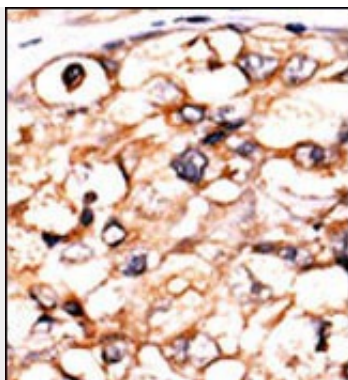
**PGK2 Antibody (N-term) - Protocols**

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

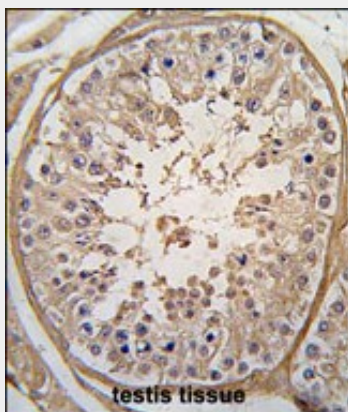
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**PGK2 Antibody (N-term) - Images**

Western blot analysis of anti-PGK2 (Cat. #AP7170a) in HepG2 cell line lysate (35ug/lane). PGK2 (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.



Formalin-fixed and paraffin-embedded human testis tissue reacted with PGK2 Antibody (N-term) (Cat.#AP7170a), 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.

#### **PGK2 Antibody (N-term) - Background**

PGK2 is a form of phosphoglycerate kinase unique to spermatozoa. The autosomal PGK2 gene lacks introns and contains characteristics of a processed gene. The conservation of function in this processed PGK2 gene and its tissue-specific expression in spermatogenesis suggests that it exists as a compensatory response to the inactivation of the X-linked PGK1 gene in spermatogenic cells before meiosis.

#### **PGK2 Antibody (N-term) - References**

- Zhang, L.P., et al., Biol. Reprod. 60(6):1329-1337 (1999).
- McCarrey, J.R., et al., Dev. Genet. 19(4):321-332 (1996).
- Blanche, H., et al., Genomics 9(3):420-428 (1991).
- McCarrey, J.R., et al., Nature 326(6112):501-505 (1987).
- Michelson, A.M., et al., J. Biol. Chem. 260(11):6982-6992 (1985).