

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

Specification

PGK2 Antibody (N-term) - Product Information

Application	IHC-P, WB,E
Primary Accession	P07205
Other Accession	Q4R3K4
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

IHC-P~~1:50~100

WB~~1:1000

E~~Use at an assay dependent concentration.

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.

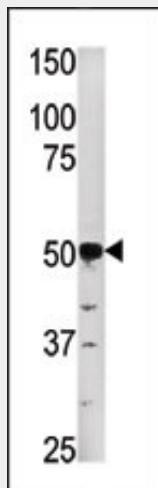
Tissue Location

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

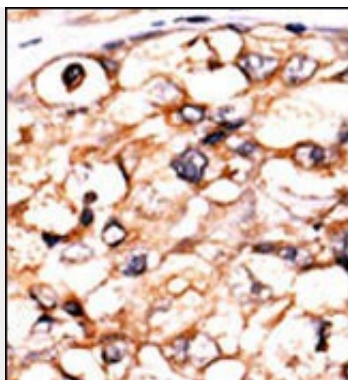
PGK2 Antibody (N-term) - Protocols

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

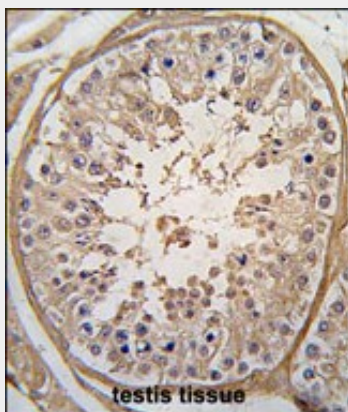
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

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).