

PGK1 Antibody
Rabbit mAb
Catalog # AP90539

Specification

PGK1 Antibody - Product Information

Application	WB, FC, ICC
Primary Accession	P00558
Reactivity	Rat
Clonality	Monoclonal
Other Names	
MGC117307; MGC142128; MGC8947; MIG10; PGKA; PGK1; PRP2;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	44615 Da

PGK1 Antibody - Additional Information

Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human PGK1
Description	The PGK1 gene encodes phosphoglycerate kinase-1, also known as ATP:3-phosphoglycerate 1-phosphotransferase (EC 2.7.2.3), which catalyzes the reversible conversion of 1,3-diphosphoglycerate to 3-phosphoglycerate during glycolysis, generating one molecule of ATP. It belongs to the phosphoglycerate kinase family and defects in PGK1 are the cause of phosphoglycerate kinase 1 deficiency (PGK1D).
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

PGK1 Antibody - 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

<http://www.uniprot.org/citations/30323285>, PubMed:<<http://www.uniprot.org/citations/7391028>>7391028). 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:<<http://www.uniprot.org/citations/2324090>>2324090). May play a role in sperm motility (PubMed:<<http://www.uniprot.org/citations/26677959>>26677959).

Cellular Location

Cytoplasm.

Tissue Location

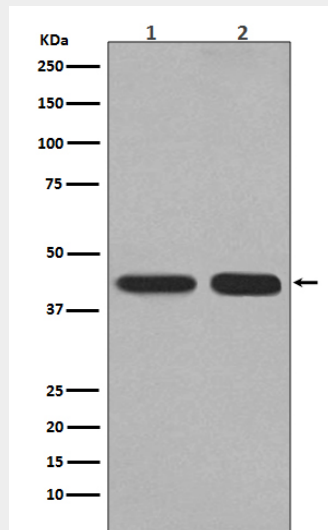
Mainly expressed in spermatogonia. Localized on the principle piece in the sperm (at protein level). Expression significantly decreased in the testis of elderly men

PGK1 Antibody - 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 - Images



Western blot analysis of PGK1 expression in (1) HepG2 cell lysate; (2) Mouse kidney lysate.