

### **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



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**

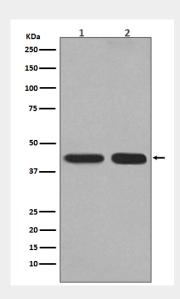
Mainly expressed in spermatogonia. Localized on the principle piece in the sperm (at protein level). Expression significantly decreased in the testis of elderly men

## **PGK1 Antibody - Protocols**

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

#### **PGK1 Antibody - Images**



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