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PGK1/Phosphoglycerate Kinase 1 Antibody
Rabbit Polyclonal Antibody
Catalog # ALS16857

Specification

PGK1/Phosphoglycerate Kinase 1 Antibody - Product Information

Application	**IHC, WB**
Primary Accession	P00558
Other Accession	5230
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Calculated MW	**44615**

PGK1/Phosphoglycerate Kinase 1 Antibody - Additional Information

Gene ID 5230

Other Names
PGK1, MIG10, Primer recognition protein 2, PRP 2, PGKA, Phosphoglycerate kinase 1

Target/Specificity
Human PGK1

Reconstitution & Storage
PBS, pH 7.4, 0.03% Proclin 300, 50% glycerol. Aliquot and store at -20°C or -80°C. Avoid freeze-thaw cycles.

Precautions
PGK1/Phosphoglycerate Kinase 1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

PGK1/Phosphoglycerate Kinase 1 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:30323285, PubMed: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:2324090). May play a role in sperm motility (PubMed:26677959).

Cellular Location
Cytoplasm.

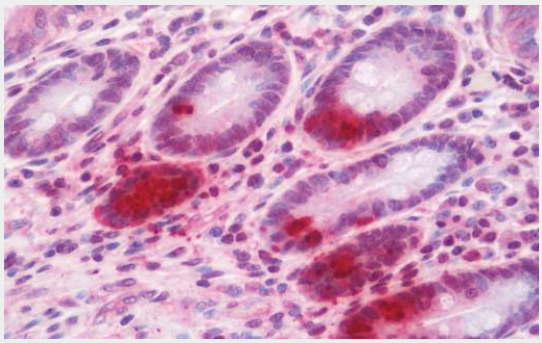
Tissue Location
Mainly expressed in spermatogonia. Localized on the principle piece in the sperm (at protein level). Expression significantly decreased in the testis of elderly men

PGK1/Phosphoglycerate Kinase 1 Antibody - Protocols

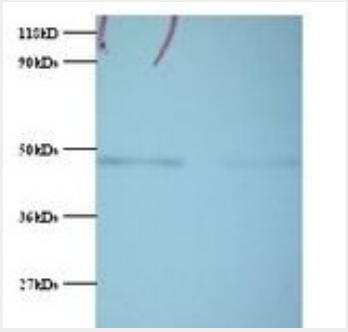
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PGK1/Phosphoglycerate Kinase 1 Antibody - Images



Anti-PGK1/Phosphoglycerate Kinase 1 antibody IHC staining of human small intestine.



Western blot of Phosphoglycerate kinase 1 antibody at 2 ug/ml.

PGK1/Phosphoglycerate Kinase 1 Antibody - Background

In addition to its role as a glycolytic enzyme, it seems that PGK-1 acts as a polymerase alpha cofactor protein (primer recognition protein).

PGK1/Phosphoglycerate Kinase 1 Antibody - References

Michelson A.M.,et al.Proc. Natl. Acad. Sci. U.S.A. 80:472-476(1983).
Michelson A.M.,et al.Proc. Natl. Acad. Sci. U.S.A. 82:6965-6969(1985).
Kim J.W.,et al.Submitted (SEP-2003) to the EMBL/GenBank/DDBJ databases.
Shichijo S.,et al.Submitted (MAY-2001) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).