

PGK1 Antibody (Center S320) Blocking Peptide
Synthetic peptide
Catalog # BP7169a**Specification**

PGK1 Antibody (Center S320) Blocking Peptide - Product Information

Primary Accession [P00558](#)
Other Accession [Q5J7W1](#)

PGK1 Antibody (Center S320) Blocking Peptide - Additional Information

Gene ID 5230

Other Names

Phosphoglycerate kinase 1, Cell migration-inducing gene 10 protein, Primer recognition protein 2, PRP 2, PGK1, PGKA

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP7169a](/product/products/AP7169a) was selected from the Center region of human PGK1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PGK1 Antibody (Center S320) Blocking Peptide - 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](http://www.uniprot.org/citations/30323285), PubMed: [7391028](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/2324090)). May play a role in sperm motility (PubMed: [26677959](http://www.uniprot.org/citations/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 (Center S320) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

PGK1 Antibody (Center S320) Blocking Peptide - Images**PGK1 Antibody (Center S320) Blocking Peptide - Background**

Also known as ATP:3-phosphoglycerate 1-phosphotransferase, this major enzyme in glycolysis catalyzes the reversible conversion of 1,3-diphosphoglycerate to 3-phosphoglycerate, generating one molecule of ATP. Phosphoglycerate kinase not only functions in glycolysis but is secreted by tumor cells and is proposed to participate in the angiogenic process as a disulfide reductase. Mutations in PGK1 may be associated with hemolytic anemia.

PGK1 Antibody (Center S320) Blocking Peptide - References

Shetty, S., et al., Am. J. Respir. Cell Mol. Biol. 31(1):100-106 (2004).Daly, E.B., et al., Biochim. Biophys. Acta 1691(1):17-22 (2004).Daly, E.B., et al., Int. J. Biol. Markers 19(2):170-172 (2004).Saito, Y., et al., Biochem. Biophys. Res. Commun. 314(2):396-402 (2004).Krishnan, P., et al., J. Biol. Chem. 278(38):36726-36732 (2003).