

PGK2 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP7170a**Specification**

PGK2 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [P07205](#)**PGK2 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 5232**Other Names**

Phosphoglycerate kinase 2, Phosphoglycerate kinase, testis specific, PGK2, PGKB

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP7170a](/product/products/AP7170a) was selected from the N-term region of human PGK2. 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.

PGK2 Antibody (N-term) Blocking Peptide - Protein Information**Name** PGK2**Synonyms** PGKB**Function**

Essential for sperm motility and male fertility (PubMed: <http://www.uniprot.org/citations/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) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

PGK2 Antibody (N-term) Blocking Peptide - Images

PGK2 Antibody (N-term) Blocking Peptide - 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) Blocking Peptide - 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).