

STK22B Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP7190a**Specification**

STK22B Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q96PF2](#)**STK22B Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 23617**Other Names**

Testis-specific serine/threonine-protein kinase 2, TSK-2, TSK2, TSSK-2, Testis-specific kinase 2, DiGeorge syndrome protein G, DGS-G, Serine/threonine-protein kinase 22B, TSSK2, DGSG, SPOGA2, STK22B

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP7190a](/product/products/AP7190a) was selected from the N-term region of human STK22B. 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.

STK22B Antibody (N-term) Blocking Peptide - Protein Information**Name** TSSK2**Synonyms** DGSG, SPOGA2, STK22B**Function**

Testis-specific serine/threonine-protein kinase required during spermatid development. Phosphorylates TSKS at 'Ser-288' and SPAG16. Involved in the late stages of spermatogenesis, during the reconstruction of the cytoplasm. During spermatogenesis, required for the transformation of a ring-shaped structure around the base of the flagellum originating from the chromatoid body.

Cellular Location

Cytoplasm. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriole.

Note=Present in the cytoplasm of elongating spermatids. In spermatozoa, localizes in the equatorial segment, neck, the midpiece and in a specific sperm head compartment (By similarity). In spermatids, concentrates in centrioles during flagellogenesis.

Tissue Location

Testis-specific. Present in mature spermatozoa (at protein level).

STK22B Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

STK22B Antibody (N-term) Blocking Peptide - Images**STK22B Antibody (N-term) Blocking Peptide - Background**

STK22B is involved in the late stages of spermatogenesis, during the reconstruction of the cytoplasm. This protein may play a part in the etiology of the velocardiofacial/DiGeorge syndrome (VCFS/DGS), a developmental disorder characterized by structural and functional palate anomalies, conotruncal cardiac malformations, immunodeficiency, hypocalcemia, and typical facial anomalies.

STK22B Antibody (N-term) Blocking Peptide - References

Hao, Z., et al., Mol. Hum. Reprod. 10(6):433-444 (2004).Strausberg, R.L., et al., Proc. Natl. Acad. Sci. U.S.A. 99(26):16899-16903 (2002).Dunham, I., et al., Nature 402(6761):489-495 (1999).Gong, W., et al., Hum. Mol. Genet. 5(6):789-800 (1996).Collins, J.E., et al., Genome Biol. 5 (10), R84 (2004)(): ().