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SMCP Antibody (C-term) Blocking peptide

Synthetic peptide
Catalog # BP12825b

Specification

SMCP Antibody (C-term) Blocking peptide - Product Information

Primary Accession P49901

SMCP Antibody (C-term) Blocking peptide - Additional Information

Gene ID 4184

Other Names
Sperm mitochondrial-associated cysteine-rich protein, SMCP, MCS, MCSP

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.

SMCP Antibody (C-term) Blocking peptide - Protein Information

Name SMCP

Synonyms MCS, MCSP

Function
Involved in sperm motility. Its absence is associated with genetic background dependent male infertility. Infertility may be due to reduced sperm motility in the female reproductive tract and inability to penetrate the oocyte zona pellucida (By similarity).

Cellular Location
Cytoplasm. Mitochondrion membrane; Peripheral membrane protein; Cytoplasmic side. Note=Becomes associated with the spermatid mitochondrion capsule at step 16 of spermatogenesis.

Tissue Location
Testis. Is selectively expressed in the spermatids of seminiferous tubules.

SMCP Antibody (C-term) Blocking peptide - Protocols

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

- Blocking Peptides

SMCP Antibody (C-term) Blocking peptide - Images

SMCP Antibody (C-term) Blocking peptide - Background

Sperm mitochondria differ in morphology and subcellularlocalization from those of somatic cells. They are elongated,flattened, and arranged circumferentially to form a helical coiledsheath in the midpiece of the sperm flagellum. The protein encodedby this gene localizes to the capsule associated with themitochondrial outer membranes and is thought to function in theorganization and stabilization of the helical structure of thesperm's mitochondrial sheath.

SMCP Antibody (C-term) Blocking peptide - References

Yatsenko, A.N., et al. Hum. Mol. Genet. 15(23):3411-3419(2006)Hawthorne, S.K., et al. Genomics 87(3):382-391(2006)Behne, D., et al. Annu. Rev. Nutr. 21, 453-473 (2001) :Cataldo, L., et al. Mol. Reprod. Dev. 45(3):320-331(1996)Aho, H., et al. Genomics 32(2):184-190(1996)