

**SMCP Antibody (C-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP12825b****Specification**

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**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**

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 subcellular localization from those of somatic cells. They are elongated, flattened, and arranged circumferentially to form a helical coiled sheath in the midpiece of the sperm flagellum. The protein encoded by this gene localizes to the capsule associated with the mitochondrial outer membranes and is thought to function in the organization and stabilization of the helical structure of the sperm'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)