精子线粒体相关富含半胱氨酸蛋白抗体

产品货号： mlR20082

英文名称： SMCP

中文名称： 精子线粒体相关富含半胱氨酸蛋白抗体

别　　名： HSMCSGEN1; MCS; MCSP; MCSP_HUMAN; Mitochondrial capsule selenoprotein; SMCP; Sperm mitochondria associated cysteine rich protein; Sperm mitochondrial-associated cysteine-rich protein.

研究领域： 细胞生物　发育生物学　干细胞

抗体来源： Rabbit

克隆类型： Polyclonal

交叉反应： Human,

产品应用： ELISA=1:500-1000 IHC-P=1:400-800 IHC-F=1:400-800 ICC=1:100-500 IF=1:100-500 （石蜡切片需做抗原修复）
not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

分 子 量： 13kDa

细胞定位： 细胞浆 细胞膜

性　　状： Lyophilized or Liquid

浓　　度： 1mg/ml

免 疫 原： KLH conjugated synthetic peptide derived from human SMCP:31-116/116

亚　　型： IgG

纯化方法： affinity purified by Protein A

储 存 液： 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.

保存条件： Store at -20 ° C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20° C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 ° C.

PubMed： PubMed

产品介绍： SMCP is a 116 amino acid cytoplasmic protein that is found in the outer capsule that is associated with sperm mitochondria. Expressed specifically in spermatids of seminiferous tubules, SMCP is thought to be involved in the organization and stabilization of the helical sheath structure and may play a role in overall sperm motility. SMCP has a short N-terminal segment, a C-terminal lysine and several internal cysteines. Defects in the gene encoding SMCP may be a cause of male infertility due to both reduced sperm motility and an inability to pierce the zona pellucida of the female egg.

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.

Subcellular Location:

Cytoplasm. Mitochondrion membrane. Becomes associated with the spermatid mitochondrion capsule at step 16 of spermatogenesis.

Tissue Specificity:

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

SWISS:

P49901

Gene ID:

4184

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.