

SMCP Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP57760

Specification

SMCP Polyclonal Antibody - Product Information

Application IHC-P, IHC-F, IF, ICC, E

Primary Accession
Host
Clonality
Calculated MW
Physical State
Primary Accession
Rabbit
Polyclonal
Liquid

Immunogen KLH conjugated synthetic peptide derived

from human SMCP

Epitope Specificity 31-116/116

Isotype IgG

Purity

affinity purified by Protein A

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Cytoplasm. Mitochondrion membrane.

Becomes associated with the spermatid mitochondrion capsule at step 16 of

spermatogenesis.

Important Note This product as supplied is intended for

research use only, not for use in human, therapeutic or diagnostic applications.

Background Descriptions

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.

SMCP Polyclonal Antibody - Additional Information

Gene ID 4184

Other Names

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

Target/Specificity

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

Dilution

IHC-P \sim N/A<br\>IHC-F \sim N/A<br\><span class</pre>





="dilution_IF">IF \sim 1:50 \sim 200<br\>ICC \sim N/A<br\>E \sim N/A

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

SMCP Polyclonal Antibody - 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 Polyclonal Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SMCP Polyclonal Antibody - Images