SCP-1 (T-17): sc-23600



The Power to Question

BACKGROUND

Synaptonemal complexes are meiosis-specific nuclear organelles that are involved in chromosome rearrangements, such as chromosome pairing and recombination during meiotic prophase. The synaptonemal complex protein 1 (SCP-1), also known as SYCP1(A), SYN1(I) and HOM-TES-14, is a protein product of human chromosome 1p13.2. SCP-1 is a major component of the transverse filaments of synaptonemal complexes and functions by pairing homologous chromosomes during meiotic prophase in spermatocytes, which is an essential step for the generation of haploid cells in meiosis I. SCP-1 is expressed in the testis, adult brain, some malignant gliomas, breast, renal cell and ovarian cancer. SCP-1 is known to be selectively expressed during the meiotic prophase of spermatocytes and shows cell cycle phase-independent nuclear expression in cancer cells.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: SYCP1 (human) mapping to 1p13.2.

SOURCE

SCP-1 (T-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of SCP-1 of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-23600 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

For research use only, not for use in diagnostic procedures.

APPLICATIONS

SCP-1 (T-17) is recommended for detection of SCP-1 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

SCP-1 (T-17) is also recommended for detection of SCP-1 in additional species, including equine, canine and porcine.

Suitable for use as control antibody for SCP-1 siRNA (h): sc-37642, SCP-1 shRNA Plasmid (h): sc-37642-SH and SCP-1 shRNA (h) Lentiviral Particles: sc-37642-V.

Molecular Weight of SCP-1: 111 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

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