

TSARG4 (T-13): sc-55398

BACKGROUND

TSARG4 (testis and spermatogenesis-related gene 4 protein), also known as SPAG4L (sperm-associated antigen 4-like protein) or SRG4 (spermatogenesis-related gene 4) in mice, is a ubiquitously expressed protein in humans, but in mice it is specifically expressed in the testis. TSARG4 belongs to the spindle pole body family of proteins and contains one UNC84/SUN domain and a potential transmembrane region. The human TSARG4 protein shares 74% amino acid identity with its mouse counterpart. In mice, TSARG4 is found in round spermatids and spermatocytes and may participate in mitosis. It has been hypothesized that TSARG4 localizes to the nuclear envelope.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: SUN5 (human) mapping to 20q11.21; Sun5 (mouse) mapping to 2 H2.

SOURCE

TSARG4 (T-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TSARG4 of human origin.

STORAGE

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

PRODUCT

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

Blocking peptide available for competition studies, sc-55398 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

TSARG4 (T-13) is recommended for detection of TSARG4 of mouse, rat and 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).

TSARG4 (T-13) is also recommended for detection of TSARG4 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for TSARG4 siRNA (h): sc-63167, TSARG4 siRNA (m): sc-63168, TSARG4 shRNA Plasmid (h): sc-63167-SH, TSARG4 shRNA Plasmid (m): sc-63168-SH, TSARG4 shRNA (h) Lentiviral Particles: sc-63167-V and TSARG4 shRNA (m) Lentiviral Particles: sc-63168-V.

Molecular Weight of TSARG4: 43 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.

RESEARCH USE

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

PROTOCOLS

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