TSGA2 (N-16): sc-83764



The Power to Question

BACKGROUND

TSGA2 (testis-specific gene A2 protein), also known as RSPH1 (radial spoke head 1 homolog), meichroacidin, male meiotic metaphase chromosome-associated acidic protein or CT79 (cancer/testis antigen 79), is a 309 amino acid protein specific to testis. TSGA2 has an acidic N-terminus followed by six MORN repeats, a 7-glutamic acid sequence, a short hydrophobic region and, finally, an acidic C-terminus. It has been suggested that TSGA2 may play a role in male meiosis. TSGA2 is found in the cytoplasm of late spermatocytes, secondary spermatocytes and round spermatids. However, during meiotic devisions, TSGA2 is present around metaphase chromosomes and spindles.

REFERENCES

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- Shetty, J., Klotz, K.L., Wolkowicz, M.J., Flickinger, C.J. and Herr, J.C. 2007. Radial spoke protein 44 (human meichroacidin) is an axonemal alloantigen of sperm and cilia. Gene 396: 93-107.

CHROMOSOMAL LOCATION

Genetic locus: RSPHI (human) mapping to 21q22.3; Rsph1 (mouse) mapping to 17 A3.3.

SOURCE

TSGA2 (N-16) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the N-terminus of TSGA2 of human origin.

PRODUCT

Each vial contains 100 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-83764 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

TSGA2 (N-16) is recommended for detection of TSGA2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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).

Suitable for use as control antibody for TSGA2 siRNA (h): sc-91438, TSGA2 siRNA (m): sc-154718, TSGA2 shRNA Plasmid (h): sc-91438-SH, TSGA2 shRNA Plasmid (m): sc-154718-SH, TSGA2 shRNA (h) Lentiviral Particles: sc-91438-V and TSGA2 shRNA (m) Lentiviral Particles: sc-154718-V.

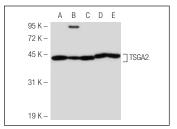
Molecular Weight of TSGA2: 40 kDa.

Positive Controls: HEK293 whole cell lysate: sc-45136, F9 cell lysate: sc-2245 or HT-1080 whole cell lysate.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western blotting: use goat anti-rabbit lgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit lgG-HRP: sc-2030 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit lgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit lgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



TSGA2 (N-16): sc-83764. Western blot analysis of TSGA2 expression in HEK293 (A), F9 (B) and HT-1080 (C) whole cell lysates and mouse testis (D) and rat testis (E) tissue extracts.

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.

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