

TEX101 (S-13): sc-240982

BACKGROUND

TEX101 (testis-expressed 101), also known as SGRG (spermatogenesis-related gene protein), scleroderma-associated autoantigen, cell surface receptor NYD-SP8, CT131, PRO1884 or TES101RP, is a 249 amino acid protein that is thought to play a role in signal transduction. Functioning as a GPI-anchor, TEX101 localizes to cell membrane where it associates with lipid rafts, and is expressed in spermatogonia, testis and blood leukocytes. TEX101 is suggested to promote protein tyrosine phosphorylation and exists as two alternatively spliced isoforms. TEX101 undergoes post-translational N-glycosylation and contains one UPAR/Ly6 domain. The gene encoding TEX101 maps to human chromosome 19, which consists of over 63 million bases, houses approximately 1,400 genes and is recognized for having the greatest gene density of the human chromosomes.

REFERENCES

1. Takayama, T., et al. 2005. Sexually dimorphic expression of the novel germ cell antigen TEX101 during mouse gonad development. *Biol. Reprod.* 72: 1315-1323.
2. Takayama, T., et al. 2005. TEX101 is shed from the surface of sperm located in the caput epididymidis of the mouse. *Zygote* 13: 325-333.
3. Teng, X., et al. 2006. A novel spermatogenesis-specific uPAR gene expressed in human and mouse testis. *Biochem. Biophys. Res. Commun.* 342: 1223-1227.
4. Yin, L., et al. 2009. A sperm GPI-anchored protein elicits sperm-cumulus cross-talk leading to the acrosome reaction. *Cell. Mol. Life Sci.* 66: 900-908.
5. Online Mendelian Inheritance in Man, OMIM[™]. 2009. Johns Hopkins University, Baltimore, MD. MIM Number: 612665. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
6. Ghafouri-Fard, S., et al. 2010. Elevated expression levels of testis-specific genes TEX101 and SPATA19 in basal cell carcinoma and their correlation with clinical and pathological features. *Br. J. Dermatol.* 162: 772-779.

CHROMOSOMAL LOCATION

Genetic locus: Tex101 (mouse) mapping to 7 A3.

SOURCE

TEX101 (S-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of TEX101 of mouse origin.

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-240982 P, (100 µg 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

TEX101 (S-13) is recommended for detection of TEX101 of mouse 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); non cross-reactive with other TEX family members.

Suitable for use as control antibody for TEX101 siRNA (m): sc-154209, TEX101 shRNA Plasmid (m): sc-154209-SH and TEX101 shRNA (m) Lentiviral Particles: sc-154209-V.

Molecular Weight of TEX101 isoforms: 27/29 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.