

TEX13A (A-13): sc-100945

BACKGROUND

TEX13A (testis-expressed sequence 13A) is a 409 amino acid protein that is expressed specifically in the testis. One of two human orthologs of the mouse Tex13 protein, TEX13A contains one RanBP2-type zinc finger domain, a motif that is thought to be involved in nucleocytoplasmic transport. Like its mouse counterpart, the gene encoding TEX13A is located on chromosome X, suggesting a possible role in the pre-meiotic stages of mammalian spermatogenesis. Translocations in the chromosomal region in which the TEX13A gene is located may be involved in the pathogenesis of azoospermia, a condition characterized by a complete absence of sperm in male semen.

REFERENCES

1. Wang, P.J., McCarrey, J.R., Yang, F. and Page, D.C. 2001. An abundance of X-linked genes expressed in spermatogonia. *Nat. Genet.* 27: 422-426.
2. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 300312. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
3. Lee, S., Lee, S.H., Chung, T.G., Kim, H.J., Yoon, T.K., Kwak, I.P., Park, S.H., Cha, W.T., Cho, S.W. and Cha, K.Y. 2003. Molecular and cytogenetic characterization of two azoospermic patients with X-autosome translocation. *J. Assist. Reprod. Genet.* 20: 385-389.
4. Wang, P.J., Page, D.C. and McCarrey, J.R. 2005. Differential expression of sex-linked and autosomal germ-cell-specific genes during spermatogenesis in the mouse. *Hum. Mol. Genet.* 14: 2911-2918.

CHROMOSOMAL LOCATION

Genetic locus: TEX13A (human) mapping to Xq22.3.

SOURCE

TEX13A (A-13) is a mouse monoclonal antibody raised against recombinant TEX13A of human origin.

PRODUCT

Each vial contains 100 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

TEX13A (A-13) is recommended for detection of TEX13A of 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 TEX13A siRNA (h): sc-91152, TEX13A shRNA Plasmid (h): sc-91152-SH and TEX13A shRNA (h) Lentiviral Particles: sc-91152-V.

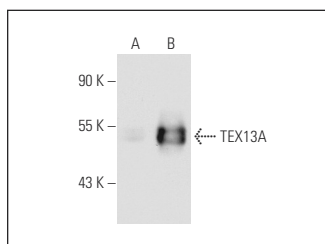
Molecular Weight of TEX13A: 46 kDa.

Positive Controls: TEX13A (h2): 293T Lysate: sc-115653 or HL-60 whole cell lysate: sc-2209.

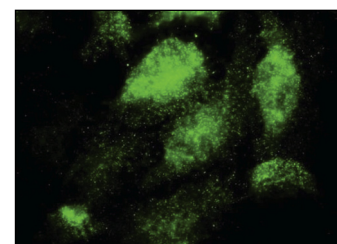
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



TEX13A (A-13): sc-100945. Western blot analysis of TEX13A expression in non-transfected: sc-117752 (A) and human TEX13A transfected: sc-115653 (B) 293T whole cell lysates.



TEX13A (A-13): sc-100945. Immunofluorescence staining of paraformaldehyde-fixed HeLa cells showing cytoplasmic localization.

STORAGE

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

RESEARCH USE

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

PROTOCOLS

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