

TEX13A (h2): 293T Lysate: sc-115653

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. Chromosome X contains nearly 153 million base pairs and houses over 1,000 genes. In conjunction with chromosome Y, chromosome X is responsible for sex determination. There are a number of conditions related to an abnormal number and combination of sex chromosomes, some of which include Turner's syndrome, color blindness, hemophilia and Duchenne muscular dystrophy.

REFERENCES

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3. 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.
4. 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/>
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6. 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.

PRODUCT

TEX13A (h2): 293T Lysate represents a lysate of human TEX13A transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

RESEARCH USE

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

APPLICATIONS

TEX13A (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive TEX13A antibodies. Recommended use: 10-20 µl per lane.

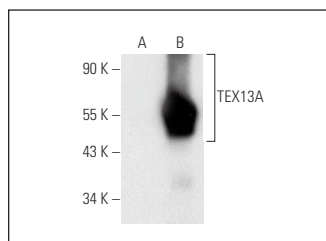
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

TEX13A (B-1): sc-398910 is recommended as a positive control antibody for Western Blot analysis of enhanced human TEX13A expression in TEX13A transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

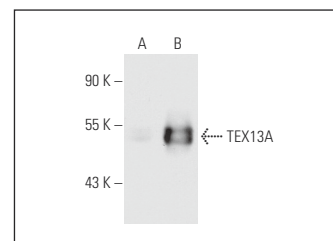
RECOMMENDED SUPPORT REAGENTS

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.

DATA



TEX13A (B-1): sc-398910. 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. Western blot analysis of TEX13A expression in non-transfected: sc-117752 (A) and human TEX13A transfected: sc-115653 (B) 293T whole cell lysates.

PROTOCOLS

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