

Sox-15 (h): 293 Lysate: sc-110784

BACKGROUND

Sox-15 (SRY (sex determining region Y)-box 20, SRY-box 15, Sox-26, Sox-27) encodes a member of the Sox (SRY-related HMG-box) family of transcription factors involved in the regulation of embryonic development and in the determination of the cell fate. Sox-15 may act as a transcriptional regulator after forming a protein complex with other proteins. Sox-15 is widely expressed in fetal and adult tissues with highest level found in fetal spinal cord, adult brain and adult testis. Sox family transcription factors influence cell differentiation, development and sex determination. Sox-15 contains a unique DNA binding domain known as the high mobility group (HMG) box that is related to that of the testis determining gene, SRY. The highly complex group of Sox genes cluster at a minimum of 40 different loci that rapidly diverged in various animal lineages. Several Sox genes have been identified, and members of this family have been shown to be conserved during evolution and to play key roles during animal development.

REFERENCES

1. Laudet, V., Stehelin, D. and Clevers, H. 1993. Ancestry and diversity of the HMG box superfamily. *Nucleic Acids Res.* 21: 2493-2501.
2. Meyer, J., Wirth, J., Held, M., Schempp, W. and Scherer, G. 1996. SOX20, a new member of the SOX gene family, is located on chromosome 17p13. *Cytogenet. Cell Genet.* 72: 246-249.
3. Critcher, R., Stitson, R.N., Wade-Martins, R., Easty, D.J. and Farr, C.J. 1998. Assignment of Sox-4 to mouse chromosome 13 bands A3-A5 by fluorescence *in situ* hybridization; refinement of the human SOX4 location to 6p22.3 and of SOX20 to chromosome 17p12.3. *Cytogenet. Cell Genet.* 81: 294-295.
4. Arsic, N., Rajic, T., Stanojic, S., Goodfellow, P.N. and Stevanovic, M. 1998. Characterisation and mapping of the human SOX14 gene. *Cytogenet. Cell Genet.* 83: 139-146.
5. Vujic, M., Rajic, T., Goodfellow, P.N. and Stevanovic, M. 1998. cDNA characterization and high resolution mapping of the human SOX20 gene. *Mamm. Genome* 9: 1059-1061.
6. Hiraoka, Y., Ogawa, M., Sakai, Y., Taniguchi, K., Fujii, T., Umezawa, A., Hata, J. and Aiso, S. 1998. Isolation and expression of a human SRY-related cDNA hSox-20. *Biochim. Biophys. Acta* 1396: 132-137.
7. Kuhlbrodt, K., Herbarth, B., Sock, E., Hermans-Borgmeyer, I. and Wegner, M. 1998. Sox-10, a novel transcriptional modulator in glial cells. *J. Neurosci.* 18: 237-250.
8. Osaki, E., Nishina, Y., Inazawa, J., Copeland, N.G., Gilbert, D.J., Jenkins, N.A., Ohsugi, M., Tezuka, T., Yoshida, M. and Semba, K. 1999. Identification of a novel SRY-related gene and its germ cell-specific expression. *Nucleic Acids Res.* 27: 2503-2510.
9. Sasai, Y. 2001. Roles of Sox factors in neural determination: conserved signaling in evolution? *Int. J. Dev. Biol.* 45: 321-326.

CHROMOSOMAL LOCATION

Genetic locus: SOX15 (human) mapping to 17p13.1.

PRODUCT

Sox-15 (h): 293 Lysate represents a lysate of human Sox-15 transfected 293 cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

Sox-15 (h): 293 Lysate is suitable as a Western Blotting positive control for human reactive Sox-15 antibodies. Recommended use: 10-20 µl per lane.

Control 293 Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-transfected 293 cells.

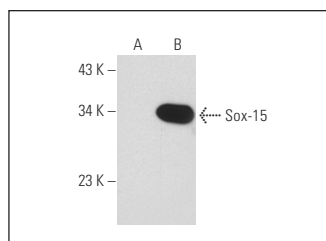
Sox-15 (C-7): sc-166964 is recommended as a positive control antibody for Western Blot analysis of enhanced human Sox-15 expression in Sox-15 transfected 293 cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

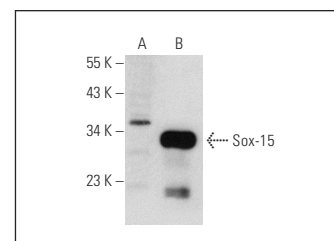
To ensure optimal results, the following support reagents are recommended:

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



Sox-15 (C-7): sc-166964. Western blot analysis of Sox-15 expression in non-transfected: sc-110760 (A) and human Sox-15 transfected: sc-110784 (B) 293 whole cell lysates.



Sox-15 (D-8): sc-166966. Western blot analysis of Sox-15 expression in non-transfected: sc-110760 (A) and human Sox-15 transfected: sc-110784 (B) 293 whole cell lysates.

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.

PROTOCOLS

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