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Sox-10 (h3): 293T Lysate: sc-176025

BACKGROUND

Sox genes comprise a family of genes that are related to the mammalian sex determining gene SRY. These genes similarly contain sequences that encode for the HMG-box domain, which is responsible for the sequence-specific DNA-binding activity. Sox genes encode putative transcriptional regulators implicated in the decision of cell fates during development and the control of diverse developmental processes. The highly complex group of Sox genes cluster at least 40 different loci that rapidly diverged in various animal lineages. At present, 30 Sox genes have been identified. Members of this family have been shown to be conserved during evolution and to play key roles during animal development. Some are involved in human diseases, including sex reversal.

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. Kuhlbrodt, K., Herbarth, B., Sock, E., Hermans-Borgmeyer, I. and Wegner, M. 1998. Sox10, a novel transcriptional modulator in glial cells. *J. Neurosci.* 18: 237-250.
3. 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.
4. 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.
5. 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: SOX10 (human) mapping to 22q13.1.

PRODUCT

Sox-10 (h3): 293T Lysate represents a lysate of human Sox-10 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.

APPLICATIONS

Sox-10 (h3): 293T Lysate is suitable as a Western Blotting positive control for human reactive Sox-10 antibodies. Recommended use: 10-20 µl per lane.

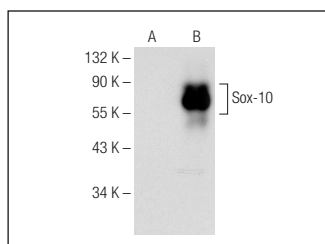
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

Sox-10 (G-11): sc-374170 is recommended as a positive control antibody for Western Blot analysis of enhanced human Sox-10 expression in Sox-10 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

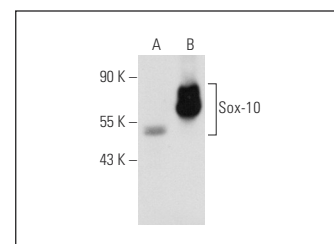
RECOMMENDED SUPPORT REAGENTS

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



Sox-10 (G-11): sc-374170. Western blot analysis of Sox-10 expression in non-transfected: sc-117752 (A) and human Sox-10 transfected: sc-176025 (B) 293T whole cell lysates.



Sox-10 (H-2): sc-271163. Western blot analysis of Sox-10 expression in non-transfected: sc-117752 (A) and human Sox-10 transfected: sc-176025 (B) 293T whole cell lysates.

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.