

Sox-13 (S-19): sc-17349

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 a minimum of 40 different loci that rapidly diverged in various animal lineages. At present 30 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. Some are involved in human diseases, including sex reversal.

REFERENCES

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2. 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.
3. Arsic, N., Rajic, T., Stanojic, S., Goodfellow, P.N. and Stevanovic, M. 1998. Characterisation and mapping of the human Sox-14 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.
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CHROMOSOMAL LOCATION

Genetic locus: SOX13 (human) mapping to 1q32.1; Sox13 (mouse) mapping to 1 E4.

SOURCE

Sox-13 (S-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Sox-13 of human 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-17349 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.

RESEARCH USE

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

APPLICATIONS

Sox-13 (S-19) is recommended for detection of Sox-13 of mouse, rat and 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).

Sox-13 (S-19) is also recommended for detection of Sox-13 in additional species, including equine, canine and bovine.

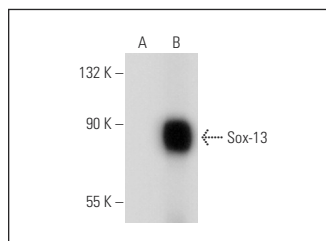
Suitable for use as control antibody for Sox-13 siRNA (h): sc-38424, Sox-13 siRNA (m): sc-38425, Sox-13 shRNA Plasmid (h): sc-38424-SH, Sox-13 shRNA Plasmid (m): sc-38425-SH, Sox-13 shRNA (h) Lentiviral Particles: sc-38424-V and Sox-13 shRNA (m) Lentiviral Particles: sc-38425-V.

Sox-13 (S-19) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of Sox-13: 111 kDa.

Positive Controls: Sox-13 (h): 293T Lysate: sc-111779, A-10 nuclear extract: sc-24959 or Jurkat whole cell lysate: sc-2204.

DATA



Sox-13 (S-19): sc-17349. Western blot analysis of Sox-13 expression in non-transfected: sc-117750 (A) and human Sox-13 transfected: sc-111779 (B) whole cell lysates.

PROTOCOLS

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