Sox-11 (E-19): sc-17346



The Power to Question

BACKGROUND

The Sox family are comprised of members that are related to the mammalian sex determining gene SRY. The Sox family of 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 conserved during evolution and play key roles during animal development. Some are involved in human diseases, including sex reversal. Sox-11 (SRY (sex determining region Y)-box 11) is a 441 amino acid nuclear protein expressed mainly in the nervous system. Containing an HMG box DNA-binding domain, Sox-11 may play a critical role in the developing nervous system.

REFERENCES

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- 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., Stanojcic, S., Goodfellow, P.N. and Stevanovic, M. 1998. Characterisation and mapping of the human Sox-14 gene. Cytogenet. Cell Genet. 83: 139-146.
- 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: SOX11 (human) mapping to 2p25; Sox11 (mouse) mapping to 12 A3.

SOURCE

Sox-11 (E-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of Sox-11 of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-17346 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-17346 X, 200 $\mu g/0.1$ ml.

APPLICATIONS

Sox-11 (E-19) is recommended for detection of Sox-11 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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-11 (E-19) is also recommended for detection of Sox-11 in additional species, including porcine and avian.

Suitable for use as control antibody for Sox-11 siRNA (h): sc-38422, Sox-11 siRNA (m): sc-38423, Sox-11 shRNA Plasmid (h): sc-38422-SH, Sox-11 shRNA Plasmid (m): sc-38423-SH, Sox-11 shRNA (h) Lentiviral Particles: sc-38422-V and Sox-11 shRNA (m) Lentiviral Particles: sc-38423-V.

Sox-11 (E-19) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

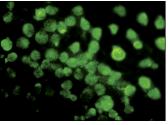
Molecular Weight of Sox-11: 47 kDa.

Positive Controls: Y79 cell lysate: sc-2240, SK-N-MC nuclear extract: sc-2154 or IMR-32 nuclear extract: sc-2148.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



Sox-11 (E-19): sc-17346. Immunofluorescence staining of methanol-fixed Y79 cells showing nuclear 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.