# Sox-21 (P-20): sc-17366



The Power to Question

## **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**

- 1. Laudet, V., Stehelin, D., and Clevers, H. 1993. Ancestry and diversity of the HMG box superfamily. Nucleic Acids Res. 21: 2493-2501.
- 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.
- 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.
- 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: SOX21 (human) mapping to 13q31-q32; Sox21 (mouse) mapping to 14 E4.

# **SOURCE**

Sox-21 (P-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of Sox-21 of mouse origin.

#### **PRODUCT**

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-17366 P, (100  $\mu$ g 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-21 (P-20) is recommended for detection of Sox-21 of mouse and rat 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).

# **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.

## **PROTOCOLS**

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

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