**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**


**CHROMOSOMAL LOCATION**

Genetic locus: SOX8 (human) mapping to 16p13.3; Sox8 (mouse) mapping to 17A3.3.

**SOURCE**

Sox-8 (H-7) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 235-271 within an internal region of Sox-8 of human origin.

**PRODUCT**

Each vial contains 200 μg IgG1; kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-374446 X, 200 μg/0.1 ml.

Sox-8 (H-7) is available conjugated to agarose (sc-374446 AC), 500 μg/0.25 ml agarose in 1 ml, for WB, HRP (sc-374446 HRP), 200 μg/ml, for WB, HRP (sc-374446 FITC), Alexa Fluor® 488 (sc-374446 AF488), Alexa Fluor® 546 (sc-374446 AF546), Alexa Fluor® 594 (sc-374446 AF594) or Alexa Fluor® 647 (sc-374446 AF647), 200 μg/ml, for WB (RGB), IF, IHC(P) and FC; and to either Alexa Fluor® 680 (sc-374446 AF680) or Alexa Fluor® 790 (sc-374446 AF790), 200 μg/ml, for Near-Infrared (NIR) WB, IF and FC.

Blocking peptide available for competition studies, sc-374446 P (100 μg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA

**APPLICATIONS**

Sox-8 (H-7) is recommended for detection of Sox-8 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).

Suitable for use as control antibody for Sox-8 siRNA (h): sc-38418, Sox-8 siRNA (m): sc-38419, Sox-8 shRNA Plasmid (h): sc-38418-SH, Sox-8 siRNA Plasmid (m): sc-38419-SH, Sox-8 shRNA (h) Lentiviral Particles: sc-38418-V and Sox-8 shRNA (m) Lentiviral Particles: sc-38419-V.

Sox-8 (H-7) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

**DATA**

Sox-8 expression in non-transfected: sc-117752 (A) and mouse Sox-8 transfected: sc-123720 (B) 293T whole cell lysates.

**SELECT PRODUCT CITATIONS**


**STORAGE**

Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**PROTOCOLS**

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

**RESEARCH USE**

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