



## SRY (M-20): sc-8235

### BACKGROUND

SRY (sex-determining region Y protein) is a transcriptional activator required for male sex determination in mammals. This protein, also referred to as testis-determining factor (TDF), is an HMG box protein that initiates the formation of testis from undifferentiated gonad. The DNA-binding activity of SRY is required for normal testis formation. This DNA-binding activity is thought to be regulated by PKA, which phosphorylates SRY *in vivo*. Mutations in SRY have been associated with 46,XY gonadal dysgenesis, in which the gonads fail to develop in XY phenotypic females.

### REFERENCES

1. Clepet, C., et al. 1993. The human SRY transcript. *Hum. Mol. Genet.* 2: 2007-2012.
2. Harley, V.R., et al. 1994. The biochemical role of SRY in sex determination. *Mol. Reprod. Dev.* 39: 184-193.
3. Fechner, P.Y. 1996. The role of SRY in mammalian sex determination. *Acta Paediatr. Jpn.* 38: 380-389.
4. Tsutsumi, O., et al. 1996. Analysis of the testis-determining gene SRY in patients with gonadal dysgenesis. *Horm. Res.* 46: 6-10.
5. Graves, J.A. 1998. Evolution of the mammalian Y chromosome and sex-determining genes. *J. Exp. Zool.* 281: 472-481.
6. Desclozeaux, M., et al. 1998. Phosphorylation of an N-terminal motif enhances DNA-binding activity of the human SRY protein. *J. Biol. Chem.* 273: 7988-7995.

### CHROMOSOMAL LOCATION

Genetic locus: Sry (mouse) mapping to Y A1.

### SOURCE

SRY (M-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of SRY of mouse 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-8235 P, (100 µg 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-8235 X, 200 µg/0.1 ml.

### 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](http://www.scbt.com) or our catalog for detailed protocols and support products.

### APPLICATIONS

SRY (M-20) is recommended for detection of SRY of mouse and, to a lesser extent, 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).

Suitable for use as control antibody for SRY siRNA (m): sc-38444, SRY shRNA Plasmid (m): sc-38444-SH and SRY shRNA (m) Lentiviral Particles: sc-38444-V.

SRY (M-20) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of SRY: 27 kDa.

Positive Controls: mouse testis extract: sc-2405.

### 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.

### SELECT PRODUCT CITATIONS

1. Yeagley, D., et al. 2000. Characterization of elements mediating regulation of phosphoenolpyruvate carboxykinase gene transcription by protein kinase A and Insulin. *J. Biol. Chem.* 275: 17814-17820.
2. Bradford, S.T., et al. 2007. Comparative analysis of anti-mouse SRY antibodies. *Sex. Dev.* 1: 305-310.
3. Ong, C.T., et al. 2008. Notch and Presenilin regulate cellular expansion and cytokine secretion but cannot instruct Th1/Th2 fate acquisition. *PLoS ONE* 3: e2823.

### RESEARCH USE

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