



DMRT2 (H-124): sc-98692

BACKGROUND

In humans, the DMRT (doublesex and mab-3 related transcription factor) genes encode a large family of transcription factors that are related to the *Drosophila* doublesex proteins. Expressed primarily in the gonads, DMRT proteins contain cysteine-rich DNA-binding motifs and are thought to play an important role in sexual development. DMRT2 (doublesex and MAB-3 related transcription factor 2), also known as DSXL2, is a 226 amino acid nuclear protein that contains one DM DNA-binding domain and belongs to the DMRT family. Expressed in kidney, testis and skeletal muscle, DMRT2 shares 80% sequence identity with DMRT1 and may play a role in gonad development. The gene encoding DMRT2 maps to human chromosome 9, which houses over 900 genes and comprises nearly 4% of the human genome.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: DMRT2 (human) mapping to 9p24.3; Dmrt2 (mouse) mapping to 19 C1.

SOURCE

DMRT2 (H-124) is a rabbit polyclonal antibody raised against amino acids 1-124 mapping at the N-terminus of DMRT2 of human origin.

STORAGE

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

PRODUCT

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

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-98692 X, 200 µg/0.1 ml.

APPLICATIONS

DMRT2 (H-124) is recommended for detection of DMRT2 of human and, to a lesser extent, mouse and rat 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).

Suitable for use as control antibody for DMRT2 siRNA (h): sc-77157, DMRT2 siRNA (m): sc-77158, DMRT2 shRNA Plasmid (h): sc-77157-SH, DMRT2 shRNA Plasmid (m): sc-77158-SH, DMRT2 shRNA (h) Lentiviral Particles: sc-77157-V and DMRT2 shRNA (m) Lentiviral Particles: sc-77158-V.

DMRT2 (H-124) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of DMRT2: 24 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

RESEARCH USE

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

PROTOCOLS

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