**BACKGROUND**

In humans, the DMRT genes encode a large family of transcription factors that are related to the *Drosophila* doublesex proteins. Expressed primarily in the gonads, the DMRT proteins contain cysteine-rich DNA-binding motifs and are thought to play an important role in sexual development. DMRTB1 (Doublesex- and mab-3-related transcription factor B1) is a 342 amino acid protein that contains one DM DNA-binding domain and belongs to the DMRT family. Localized to the nucleus and expressed in the testis, DMRTB1 may participate in developmental processes and, via its DM domain, may bind to DNA and regulate transcription.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: Dmrtb1 (mouse) mapping to 4 C7.

**SOURCE**

DMRTB1 (P-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of DMRTB1 of mouse 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.

Blocking peptide available for competition studies, sc-131497 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-131497 X, 200 µg/0.1 ml.

**APPLICATIONS**

DMRTB1 (P-15) is recommended for detection of DMRTB1 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); non cross-reactive with other DMRT family members.

Suitable for use as control antibody for DMRTB1 siRNA (m): sc-143062, DMRTB1 shRNA Plasmid (m): sc-143062-SH and DMRTB1 shRNA (m) Lentiviral Particles: sc-143062-V.

DMRTB1 (P-15) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of DMRTB1: 36 kDa.

**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-2033 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.

**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.