

DMRTA1 (P-22): sc-133517

BACKGROUND

DMRTA1 (DMRT-like family A1), also known as DMO, is a 504 amino acid protein that localizes to the nucleus and contains one DM DNA-binding domain. Expressed in prostate, liver, pancreas and kidney and present at lower levels in ovary and testis, DMRTA1 is thought to be involved in sexual developmental processes during maturation. The gene encoding DMRTA1 maps to human chromosome 9, which houses over 900 genes and comprises nearly 4% of the human genome. Hereditary hemorrhagic telangiectasia, which is characterized by harmful vascular defects, and Familial dysautonomia, are both associated with chromosome 9. Notably, chromosome 9 encompasses the largest interferon family gene cluster.

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CHROMOSOMAL LOCATION

Genetic locus: DMRTA1 (human) mapping to 9p21.3; Dmrta1 (mouse) mapping to 4 C5.

STORAGE

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

SOURCE

DMRTA1 (P-22) is an affinity purified rabbit polyclonal antibody raised against synthetic DMRTA1 peptide of mouse origin.

PRODUCT

Each vial contains 50 µg IgG in 500 µl PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

APPLICATIONS

DMRTA1 (P-22) is recommended for detection of DMRTA1 of mouse and human 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for DMRTA1 siRNA (h): sc-92493, DMRTA1 siRNA (m): sc-143061, DMRTA1 shRNA Plasmid (h): sc-92493-SH, DMRTA1 shRNA Plasmid (m): sc-143061-SH, DMRTA1 shRNA (h) Lentiviral Particles: sc-92493-V and DMRTA1 shRNA (m) Lentiviral Particles: sc-143061-V.

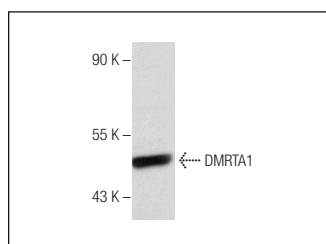
Molecular Weight of DMRTA1: 53 kDa.

Positive Controls: NIH/3T3 whole cell lysate: sc-2210, HeLa whole cell lysate: sc-2200 or mouse kidney extract: sc-2255.

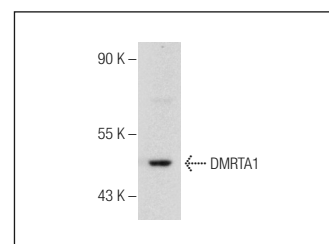
RECOMMENDED SECONDARY REAGENTS

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).

DATA



DMRTA1 (P-22): sc-133517. Western blot analysis of DMRTA1 expression in mouse kidney tissue extract.



DMRTA1 (P-22): sc-133517. Western blot analysis of DMRTA1 expression in HeLa whole cell lysate.

RESEARCH USE

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