

# **DMRT1** antibody - N-terminal region

Rabbit Polyclonal Antibody Catalog # Al16234

## **Specification**

# **DMRT1** antibody - N-terminal region - Product Information

Application WB
Primary Accession O9Y5R6

Other Accession NM 021951, NP 068770

Reactivity

Human, Rabbit, Pig, Bovine, Dog
Predicted

Human, Rabbit, Pig, Bovine, Dog

Host Rabbit
Clonality Polyclonal
Calculated MW 39kDa KDa

### DMRT1 antibody - N-terminal region - Additional Information

**Gene ID 1761** 

Alias Symbol DMT1

**Other Names** 

Doublesex- and mab-3-related transcription factor 1, DM domain expressed in testis protein 1, DMRT1, DMT1

#### **Format**

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

## **Reconstitution & Storage**

Add 50 ul of distilled water. Final anti-DMRT1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

#### **Precautions**

DMRT1 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

# **DMRT1** antibody - N-terminal region - Protein Information

Name DMRT1

**Synonyms DMT1** 

# **Function**

Transcription factor that plays a key role in male sex determination and differentiation by controlling testis development and male germ cell proliferation. Plays a central role in spermatogonia by inhibiting meiosis in undifferentiated spermatogonia and promoting mitosis, leading to spermatogonial development and allowing abundant and continuous production of sperm. Acts both as a transcription repressor and activator: prevents meiosis by restricting retinoic acid (RA)-dependent transcription and repressing STRA8 expression and promotes spermatogonial



development by activating spermatogonial differentiation genes, such as SOHLH1. Also plays a key role in postnatal sex maintenance by maintaining testis determination and preventing feminization: represses transcription of female promoting genes such as FOXL2 and activates male-specific genes. May act as a tumor suppressor. May also play a minor role in oogenesis (By similarity).

#### **Cellular Location**

Nucleus {ECO:0000255|PROSITE-ProRule:PRU00070}.

## **Tissue Location**

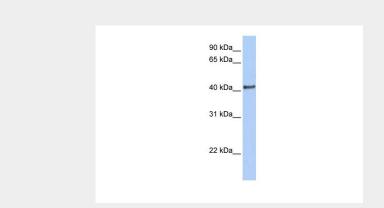
Testis-specific. Expressed in prostate cancer (at protein level).

# **DMRT1** antibody - N-terminal region - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

# DMRT1 antibody - N-terminal region - Images

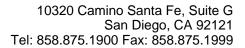


WB Suggested Anti-DMRT1 Antibody Titration: 0.2-1 µg/ml

Positive Control: Human brain

# DMRT1 antibody - N-terminal region - Background

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# **DMRT1** antibody - N-terminal region - References

Raymond C.S.,et al.Hum. Mol. Genet. 8:989-996(1999). Calvari V.,et al.Genomics 65:203-212(2000). Cheng H.H.,et al.Cell Res. 16:389-393(2006). Ota T.,et al.Nat. Genet. 36:40-45(2004). Humphray S.J.,et al.Nature 429:369-374(2004).