

**DMRT1 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP19143b**

**Specification**

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**DMRT1 Antibody (C-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">O9Y5R6</a>
Other Accession	<a href="#">NP_068770.2</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	39473
Antigen Region	296-322

**DMRT1 Antibody (C-term) - Additional Information**

**Gene ID** 1761

**Other Names**

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

**Target/Specificity**

This DMRT1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 296-322 amino acids from the C-terminal region of human DMRT1.

**Dilution**

WB~~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

DMRT1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**DMRT1 Antibody (C-term) - 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**

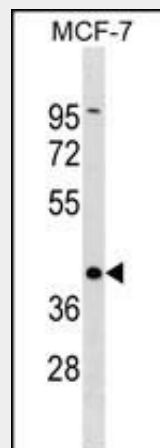
Testis-specific. Expressed in prostate cancer (at protein level).

**DMRT1 Antibody (C-term) - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**DMRT1 Antibody (C-term) - Images**



DMRT1 Antibody (C-term) (Cat. #AP19143b) western blot analysis in MCF-7 cell line lysates (35ug/lane). This demonstrates the DMRT1 antibody detected the DMRT1 protein (arrow).

**DMRT1 Antibody (C-term) - Background**

This gene is found in a cluster with two other members of the gene family, having in common a zinc finger-like DNA-binding

motif (DM domain). The DM domain is an ancient, conserved component of the vertebrate sex-determining pathway that is also a key regulator of male development in flies and nematodes. This gene exhibits a gonad-specific and sexually dimorphic expression pattern. Defective testicular development and XY feminization occur when this gene is hemizygous.

#### **DMRT1 Antibody (C-term) - References**

Kang, J.U., et al. *Int. J. Oncol.* 37(2):327-335(2010)  
Turnbull, C., et al. *Nat. Genet.* 42(7):604-607(2010)  
Rose, J.E., et al. *Mol. Med.* 16 (7-8), 247-253 (2010) :  
Krentz, A.D., et al. *Proc. Natl. Acad. Sci. U.S.A.* 106(52):22323-22328(2009)  
Cheng, H.H., et al. *Cell Res.* 16(4):389-393(2006)