

DMRT1 antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI16234**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

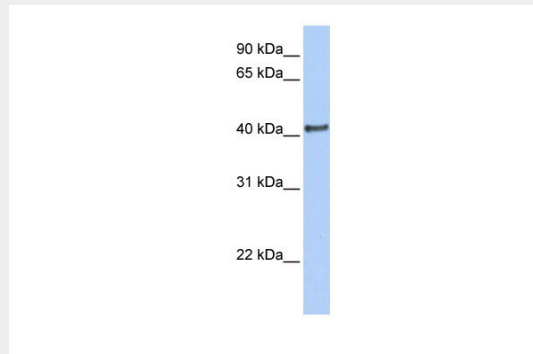
Testis-specific. Expressed in prostate cancer (at protein level).

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 Cytometry](#)
- [Cell Culture](#)

DMRT1 antibody - N-terminal region - Images



WB Suggested Anti-DMRT1 Antibody Titration: 0.2-1 $\mu\text{g/ml}$
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).