

DMRT1 Rabbit mAb

Catalog # AP77908

Specification

DMRT1 Rabbit mAb - Product Information

Application Primary Accession Reactivity Host Clonality Calculated MW WB <u>O9Y5R6</u> Human Rabbit Monoclonal Antibody 39473

DMRT1 Rabbit mAb - Additional Information

Gene ID 1761

Other Names DMRT1

Dilution WB~~1/500-1/1000

Format Liquid

DMRT1 Rabbit mAb - 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 Rabbit mAb - Protocols

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

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

DMRT1 Rabbit mAb - Images

