10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# DMRT1 Antibody

Rabbit mAb
Catalog # AP91961

## Product Information

| | |
|---|---|
| **Application** | WB, IP |
| **Primary Accession** | Q9Y5R6 |
| **Reactivity** | Human |
| **Clonality** | Monoclonal |
| **Other Names** | CT154; dmrt1; DMT1; |
| **Isotype** | Rabbit IgG |
| **Host** | Rabbit |
| **Calculated MW** | 39473 |

## Additional Information

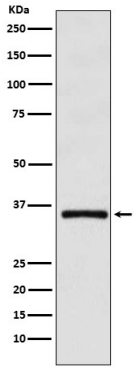
| | |
|---|---|
| **Dilution** | WB 1:500~1:2000 IP 1:80 |
| **Purification** | Affinity-chromatography |
| **Immunogen** | A synthesized peptide derived from human DMRT1 |
| **Description** | May be required for testis development. |
| **Storage Condition and Buffer** | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle. |

## 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). |

## Images




Western blot analysis of DMRT1 expression in HL-60 cell lysate.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.