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# DMRT1 Rabbit mAb

Catalog # AP77908

## Product Information

| | |
|---|---|
| **Application** | WB, IP |
| **Primary Accession** | Q9Y5R6 |
| **Reactivity** | Human |
| **Host** | Rabbit |
| **Clonality** | Monoclonal Antibody |
| **Isotype** | IgG |
| **Conjugate** | Unconjugated |
| **Immunogen** | A synthesized peptide derived from human DMRT1 |
| **Purification** | Affinity Chromatography |
| **Calculated MW** | 39473 |

## Additional Information

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|---|---|
| **Gene ID** | 1761 |
| **Other Names** | DMRT1 |
| **Dilution** | WB~~1/500-1/1000 IP~~N/A |
| **Format** | Liquid in 10mM PBS, pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% sodium azide and 50% glycerol. |
| **Storage** | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles. |

## Protein Information

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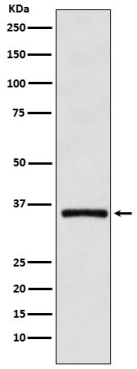
|---|---|
| **Name** | DMRT1 |
| **Synonyms** | DMT1 |
| **Function** | Transcription factor that plays a key role in male sex determination and differentiation by controlling testis development and male germ cell proliferation. Plays a central role in spermatogonia by inhibiting meiosis in undifferentiated 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

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