

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.

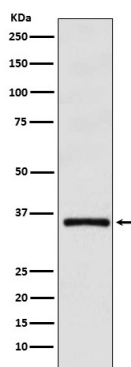
Protein Information

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'.