

Anti-DMRT1 Antibody (aa1-210, clone 2H1)

Mouse Anti Human Monoclonal Antibody

Catalog # ALS18225

Product Information

Application	WB, IHC-P
Primary Accession	Q9Y5R6
Predicted	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Names	2H1
Calculated MW	39473
Concentration (mg/ml)	1 mg/ml

Additional Information

Gene ID	1761
Alias Symbol	DMRT1
Other Names	DMRT1, DMT1
Target/Specificity	Human DMRT1
Reconstitution & Storage	Immunoaffinity purified
Precautions	Anti-DMRT1 Antibody (aa1-210, clone 2H1) is for research use only and not for use in diagnostic or therapeutic procedures.

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).

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