

ARG58524 anti-DMRT1 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes DMRT1
Tested Reactivity	Hu, Ms, Rat
Predict Reactivity	Hm
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	DMRT1
Species	Human
Immunogen	Synthetic peptide corresponding to a sequence at the N-terminus of Human DMRT1 (98-128aa RDCQCKKCNLIAERQVRMAAQVALRRQQAQE), different from the related Mouse sequence by one amino acid.
Conjugation	Un-conjugated
Alternate Names	DMT1; DM domain expressed in testis protein 1; Doublesex- and mab-3-related transcription factor 1; CT154

Application Instructions

Application table	Application	Dilution
	IHC-P	0.5 - 1 µg/ml
	WB	0.1 - 0.5 µg/ml
Application Note	IHC-P: Antigen Retrieval: By heat mediation. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.05% Sodium azide and 5% BSA.
Preservative	0.05% Sodium azide
Stabilizer	5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated

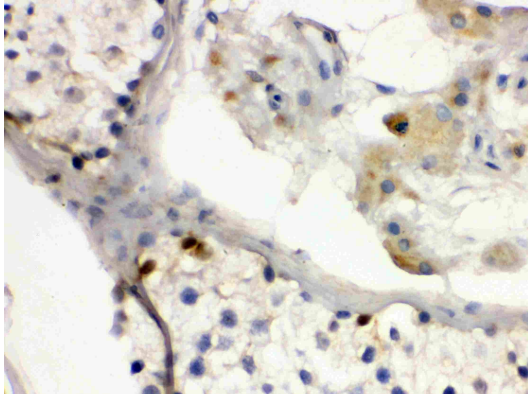
freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

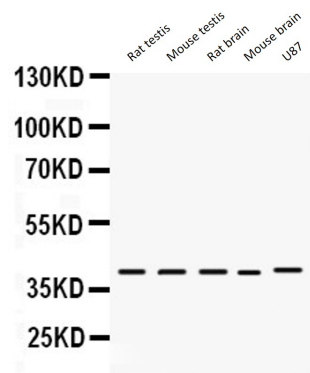
Gene Symbol	DMRT1
Gene Full Name	doublesex and mab-3 related transcription factor 1
Background	This gene is found in a cluster with two other members of the gene family, having in common a zinc finger-like DNA-binding motif (DM domain). The DM domain is an ancient, conserved component of the vertebrate sex-determining pathway that is also a key regulator of male development in flies and nematodes. This gene exhibits a gonad-specific and sexually dimorphic expression pattern. Defective testicular development and XY feminization occur when this gene is hemizygous. [provided by RefSeq, Jul 2008]
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). [UniProt]
Calculated Mw	39 kDa
Cellular Localization	Nucleus. [UniProt]

Images



ARG58524 anti-DMRT1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human testis stained with ARG58524 anti-DMRT1 antibody.



ARG58524 anti-DMRT1 antibody WB image

Western blot: 50 µg of Rat testis, 50 µg of Mouse testis, 50 µg of Rat brain, 50 µg of Mouse brain and 40 µg of U87 whole cell lysates stained with ARG58524 anti-DMRT1 antibody at 0.5 µg/ml dilution.