

DMRT1 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP55531

Specification

DMRT1 Polyclonal Antibody - Product Information

Application IHC-P, IHC-F, IF, ICC, E

Primary Accession
Reactivity
Rat, Dog
Host
Clonality
Polyclonal
Calculated MW
Rat, Dog
Rabbit
Polyclonal

Calculated MW

Physical State

Liquid

Immunogen KLH conjugated synthetic peptide derived

from human DMRT1

Epitope Specificity 31-130/373

Isotype IgG
Purity

affinity purified by Protein A

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Nucleus.

SIMILARITY Belongs to the DMRT family. Contains 1 DM

DNA-binding domain.

Important Note This product as supplied is intended for

research use only, not for use in human, therapeutic or diagnostic applications.

Background Descriptions

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]

DMRT1 Polyclonal Antibody - Additional Information

Gene ID 1761

Other Names

Doublesex- and mab-3-related transcription factor 1, DM domain expressed in testis protein 1, DMRT1, DMT1

Target/Specificity

Testis specific.

Dilution

IHC-P~~N/A<br \><span class</pre>





="dilution IHC-F">IHC-F~~N/A<br \>IF~~1:50~200
or \>ICC~~N/A
or \> \>E~~N/A

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

DMRT1 Polyclonal Antibody - 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).

DMRT1 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

DMRT1 Polyclonal Antibody - Images