

## DMRT1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant DMRT1. Catalog # AT1783a

## **Specification**

### DMRT1 Antibody (monoclonal) (M01) - Product Information

**Application** WB, E **09Y5R6 Primary Accession** Other Accession BC040847 Reactivity Human Host mouse Clonality **Monoclonal** Isotype IgG1 kappa Calculated MW 39473

## DMRT1 Antibody (monoclonal) (M01) - 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

DMRT1 (AAH40847.1, 1 a.a.  $\sim$  373 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

## **Dilution**

WB~~1:500~1000

E~~N/A

#### **Format**

Clear, colorless solution in phosphate buffered saline, pH 7.2.

#### Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

#### **Precautions**

DMRT1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

## DMRT1 Antibody (monoclonal) (M01) - Protocols

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

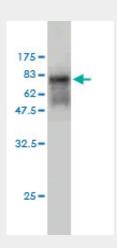
- Western Blot
- Blocking Peptides



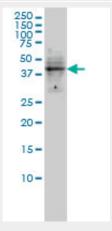
Tel. 000.075. 1900 Fax. 000.075.

- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

# DMRT1 Antibody (monoclonal) (M01) - Images

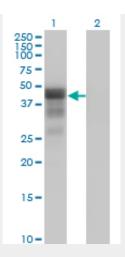


Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (66.77 KDa).



DMRT1 monoclonal antibody (M01), clone 1G11 Western Blot analysis of DMRT1 expression in HL-60 ((Cat # AT1783a)

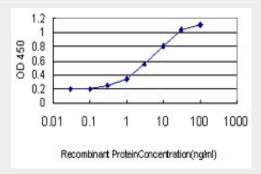




Western Blot analysis of DMRT1 expression in transfected 293T cell line by DMRT1 monoclonal antibody (M01), clone 1G11.

Lane 1: DMRT1 transfected lysate(39.5 KDa).

Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged DMRT1 is approximately 0.3ng/ml as a capture antibody.

## DMRT1 Antibody (monoclonal) (M01) - 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.

# DMRT1 Antibody (monoclonal) (M01) - References

Variants near DMRT1, TERT and ATF7IP are associated with testicular germ cell cancer. Turnbull C, et al. Nat Genet, 2010 Jul. PMID 20543847.Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614.The DM domain protein DMRT1 is a dose-sensitive regulator of fetal germ cell proliferation and pluripotency. Krentz AD, et al. Proc Natl Acad Sci U S A, 2009 Dec 29. PMID 20007774.Transcriptional diversity of DMRT1 (dsx- and mab3-related transcription factor 1) in human testis. Cheng HH, et al. Cell Res, 2006 Apr. PMID 16617334.The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334.