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# DMRT1 Antibody (monoclonal) (M01)

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

## Product Information

| | |
|---|---|
| **Application** | WB, E |
| **Primary Accession** | Q9Y5R6 |
| **Other Accession** | BC040847 |
| **Reactivity** | Human |
| **Host** | mouse |
| **Clonality** | monoclonal |
| **Isotype** | IgG1 kappa |
| **Clone Names** | 1G11 |
| **Calculated MW** | 39473 |

## Additional Information

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|---|---|
| **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. ~ 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. |

## Background

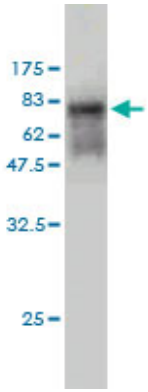
This gene is found in a cluster with two other members of the gene family, having in common a zinc finger-like DNA-binding motif (DM domain). The DM domain is an ancient, conserved component of the vertebrate sex-determining pathway that is also a key regulator of male development in flies and nematodes. This gene exhibits a gonad-specific and sexually dimorphic expression pattern. Defective testicular development and XY feminization occur when this gene is hemizygous.

## References

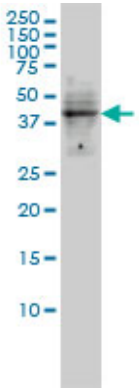
Variants near DMRT1, TERT and ATF7IP are associated with testicular germ cell cancer. Turnbull C, et al. Nat

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.

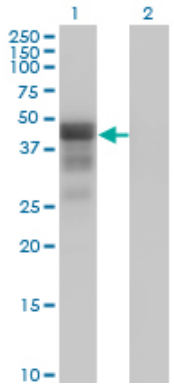
## Images




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

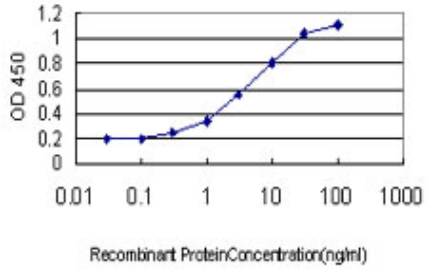



DMRT1 monoclonal antibody (M01), clone 1G11 Western Blot analysis of DMRT1 expression in HL-60 ( (Cat # AT1783a )




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.

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