

## Datasheet: MCA2336

<b>Description:</b>	MOUSE ANTI DAZL
<b>Specificity:</b>	DAZL
<b>Format:</b>	S/N
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	3/11A
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	2 ml

## Product Details

**RRID** AB\_2292585

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin (1)	▪			
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			
Immunofluorescence	▪			

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

**(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.**

### Target Species

Human

### Species Cross Reactivity

Reacts with: Mouse, Rat, Cynomolgus monkey  
**N.B.** Antibody reactivity and working conditions may vary between species.

### Product Form

Tissue Culture Supernatant - liquid

### Preparation

Tissue Culture Supernatant containing 0.1M Tris/HCl

### Preservative Stabilisers

0.09% Sodium Azide

### Immunogen

Synthetic peptide corresponding to sequence within the C terminal domain of human DAZL (CRVHHFRRSRAMLKSV).

**External Database  
Links**

**UniProt:**

[Q92904](#)   [Related reagents](#)

**Entrez Gene:**

[1618](#)   DAZL   [Related reagents](#)

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**Synonyms**

DAZH, DAZL1, DAZLA, SPGYLA

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**Fusion Partners**

Spleen cells from immunised T/O outbred mice were fused with cells of the SP2/0 myeloma cell line.

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**Specificity**

**Mouse anti Human DAZL antibody, clone 3/11A** recognizes human Deleted in azoospermia-like, also known as DAZL, DAZ homolog, DAZ-like autosomal, Deleted in azoospermia-like 1 or SPGY-like-autosomal. DAZL is a 295 amino acid ~33 kDa member of the DAZ (deleted in azoospermia) family of RNA binding proteins. DAZL is expressed in fetal and adult testes and ovaries, and is believed to play a role in germ cell development. In adult germ cells, the expression of DAZL is predominantly localized to the cytoplasm.

Mutations in this gene have been linked to severe spermatogenic failure and infertility in males ([Lin et al. 2001](#))

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**Histology Positive  
Control Tissue**

Ovary or testis.

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**References**

1. Forand, A. & Bernardino-Sgherri, J. (2009) A critical role of PUMA in maintenance of genomic integrity of murine spermatogonial stem cell precursors after genotoxic stress. [Cell Res. 19: 1018-30.](#)
2. Elkin, N.D. (2010) Toxicant-induced leakage of germ cell-specific proteins from seminiferous tubules in the rat: relationship to blood-testis barrier integrity and prospects for biomonitoring. [Toxicol Sci.117: 439-48.](#)
3. Barrios, F. et al. (2010) Opposing effects of retinoic acid and FGF9 on Nanos2 expression and meiotic entry of mouse germ cells. [J Cell Sci. 123: 871-80.](#)
4. Forand, A. et al. (2009) Similarities and differences in the *in vivo* response of mouse neonatal gonocytes and spermatogonia to genotoxic stress. [Biol Reprod. 80: 860-73.](#)
5. Anderson, R.A. et al. (2007) Conserved and divergent patterns of expression of DAZL, VASA and OCT4 in the germ cells of the human fetal ovary and testis. [BMC Dev Biol. 7: 136.](#)
6. Aoki, T. and Takada, T. (2012) Bisphenol A modulates germ cell differentiation and retinoic acid signaling in mouse ES cells. [Reprod Toxicol. 34: 463-70.](#)
7. Yamauchi K et al. (2009) *In vitro* germ cell differentiation from cynomolgus monkey embryonic stem cells. [PLoS One. 4 \(4\): e5338.](#)
8. Zogbi, C. et al. (2012) Gonocyte development in rats: proliferation, distribution and death revisited. [Histochem Cell Biol. 138 \(2\): 305-22.](#)
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10. Rose CM et al. (2014) Dynamic changes in DNA modification states during late gestation male germ line development in the rat. [Epigenetics Chromatin. 7: 19.](#)
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12. Jobling MS et al. (2011) Effects of di(n-butyl) phthalate exposure on foetal rat germ-cell number and differentiation: identification of age-specific windows of vulnerability. [Int J Androl. 34 \(5 Pt 2\): e386-96.](#)
13. Conrad, S. et al. (2014) Differential gene expression profiling of enriched human spermatogonia

- after short- and long-term culture. [Biomed Res Int. 2014: 138350.](#)
14. Wang Y *et al.* (2015) Protein Arginine Methyltransferase 5 (Prmt5) Is Required for Germ Cell Survival During Mouse Embryonic Development. [Biol Reprod. pii: biolreprod.114.127308.](#)
15. Bayne RA *et al.* (2015) GDF9 is Transiently Expressed in Oocytes before Follicle Formation in the Human Fetal Ovary and is Regulated by a Novel NOBOX Transcript. [PLoS One. 10 \(3\): e0119819.](#)
16. Endo, T. *et al.* (2015) Periodic retinoic acid-STRA8 signaling intersects with periodic germ-cell competencies to regulate spermatogenesis. [Proc Natl Acad Sci U S A. 112 \(18\): E2347-56.](#)
17. Tian-Zhong, M. *et al.* (2016) Critical role of Emx2 in the pluripotency - differentiation transition in male gonocytes via regulation of FGF9/NODAL pathway. [Reproduction. 151 \(6\): 673-81.](#)
18. Chen, M.*et al.* (2019) Abnormal Meiosis Initiation in Germ Cell Caused by Aberrant Differentiation of Gonad Somatic Cell [Oxidative Medicine and Cellular Longevity. 2019: 1-8.](#)

<b>Storage</b>	Store at +4°C or at -20°C if preferred.  This product should be stored undiluted.  Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
<b>Guarantee</b>	18 months from date of despatch.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10053 available at: 10053: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10053.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10053.pdf</a>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

- Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
- Goat Anti Mouse IgG (STAR77...) [HRP](#)
- Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
- Rabbit Anti Mouse IgG (STAR8...) [DyLight®800](#)
- Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
- Goat Anti Mouse IgG (STAR76...) [RPE](#)
- Goat Anti Mouse IgG (STAR70...) [FITC](#)
- Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
- Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
- Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®680](#), [DyLight®800](#), [FITC](#), [HRP](#)

### Recommended Negative Controls

#### [MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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