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# DAZ2 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12295b

## Product Information

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| **Application** | WB, E |
| **Primary Accession** | Q13117 |
| **Other Accession** | Q86SG3, Q9NR90, Q9NQZ3, NP_001005785.1, NP_065096.1, NP_001005786.1 |
| **Reactivity** | Human |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB31061 |
| **Calculated MW** | 63111 |
| **Antigen Region** | 518-546 |

## Additional Information

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| **Gene ID** | 57055 |
| **Other Names** | Deleted in azoospermia protein 2, DAZ2 |
| **Target/Specificity** | This DAZ2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 518-546 amino acids from the C-terminal region of human DAZ2. |
| **Dilution** | WB~~1:1000 E~~Use at an assay dependent concentration. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | DAZ2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | DAZ2 |
| **Function** | RNA-binding protein that plays an essential role in spermatogenesis. May act by binding to the 3'-UTR of mRNAs and regulating their translation. |
| **Cellular Location** | Cytoplasm. Nucleus Note=Predominantly cytoplasmic. Nuclear at some stages |

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| | of spermatozoide development. Localizes both to the nuclei and cytoplasm of spermatozoide differentiation. Nuclear in fetal gonocytes and in spermatogonial nuclei. It then relocates to the cytoplasm during male meiosis |
| **Tissue Location** | Testis specific.. |

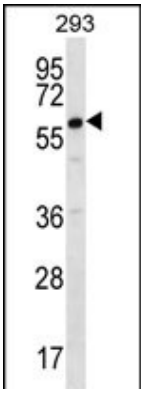
## Background

This gene is a member of the DAZ gene family and is a candidate for the human Y-chromosomal azoospermia factor (AZF). Its expression is restricted to premeiotic germ cells, particularly in spermatogonia. It encodes an RNA-binding protein that is important for spermatogenesis. Four copies of this gene are found on chromosome Y within palindromic duplications; one pair of genes is part of the P2 palindrome and the second pair is part of the P1 palindrome. Each gene contains a 2.4 kb repeat including a 72-bp exon, called the DAZ repeat; the number of DAZ repeats is variable and there are several variations in the sequence of the DAZ repeat. Each copy of the gene also contains a 10.8 kb region that may be amplified; this region includes five exons that encode an RNA recognition motif (RRM) domain. This gene contains one copy of the 10.8 kb repeat. Alternative splicing results in multiple transcript variants encoding different isoforms.

## References

Kim, B., et al. Hum. Reprod. 24(6):1507-1515(2009)
Lardone, M.C., et al. Fertil. Steril. 88(5):1318-1326(2007)
A, Z.C., et al. Yi Chuan 28(9):1057-1060(2006)
Zhang, F., et al. Ann. Hum. Genet. 70 (PT 3), 304-313 (2006) :
Yang, Y., et al. Fertil. Steril. 85(4):1061-1063(2006)

## Images




DAZ2 Antibody (C-term) (Cat. #AP12295b) western blot analysis in 293 cell line lysates (35ug/lane).This demonstrates the DAZ2 antibody detected the DAZ2 protein (arrow).