

# DAZL (C-20): sc-27333

## BACKGROUND

DAZL (deleted in azoospermia-like), an RNA-binding protein that influences spermatogenesis, is an autosomal homologue of the Y chromosome DAZ (deleted in azoospermia). The gene encoding human DAZL maps to chromosome locus 3p24.3. DAZL, like other members of the DAZ family including BOULE and DAZ, contain a highly conserved RNA-binding motif and a unique DAZ repeat. All DAZ family members are exclusively expressed in germ cells in both male and female gonads. A Thr 54-to-Ala mutation within the RNA-recognition domain of DAZL proteins contributes to spermatogenic failure. Infertility in DAZL knockout mice occurs because their germ cells are unable to complete the first meiotic prophase in the first wave of spermatogenesis.

## CHROMOSOMAL LOCATION

Genetic locus: DAZL (human) mapping to 3p24.3; Dazl (mouse) mapping to 17 B1.

## SOURCE

DAZL (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of DAZL of human origin.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-27333 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## STORAGE

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## APPLICATIONS

DAZL (C-20) is recommended for detection of DAZL of mouse and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with rat DAZL.

DAZL (C-20) is also recommended for detection of DAZL in additional species, including equine and bovine.

Suitable for use as control antibody for DAZL siRNA (h): sc-63280, DAZL siRNA (m): sc-63281, DAZL shRNA Plasmid (h): sc-63280-SH, DAZL shRNA Plasmid (m): sc-63281-SH, DAZL shRNA (h) Lentiviral Particles: sc-63280-V and DAZL shRNA (m) Lentiviral Particles: sc-63281-V.

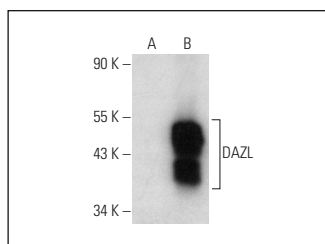
Molecular Weight of DAZL: 38 kDa.

Positive Controls: DAZL (h): 293 Lysate: sc-170337.

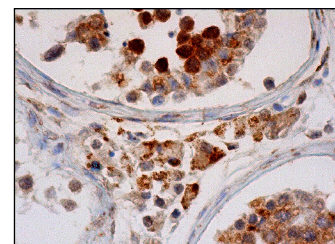
## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 4) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

## DATA



DAZL (C-20): sc-27333. Western blot analysis of DAZL expression in non-transfected: sc-110760 (A) and human DAZL transfected: sc-170337 (B) 293 whole cell lysates.



DAZL (C-20): sc-27333. Immunoperoxidase staining of formalin fixed, paraffin-embedded human testis tissue showing nuclear and cytoplasmic staining of cells in seminiferous ducts and cytoplasmic staining of Leydig cells.

## SELECT PRODUCT CITATIONS

- Evron, A., et al. 2012. Human amniotic epithelial cells differentiate into cells expressing germ cell specific markers when cultured in medium containing serum substitute supplement. *Reprod. Biol. Endocrinol.* 10: 108.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.

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Try **DAZL (E-6): sc-390929**, our highly recommended monoclonal alternative to DAZL (C-20).