

## Product datasheet

# Anti-DAZL antibody [EPR21028] - BSA and Azide free ab228135

KO VALIDATED Recombinant RabMAB

[10 Images](#)

### Overview

<b>Product name</b>	Anti-DAZL antibody [EPR21028] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [EPR21028] to DAZL - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> ICC/IF, IHC-P, WB, IHC-Fr, IP
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human <b>Predicted to work with:</b> Sheep, Horse, Cow, Pig 
<b>Immunogen</b>	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: Human, mouse and rat testis lysates. IHC-P: Human, mouse and rat testis tissues. IHC-Fr: Mouse and rat testis tissues. IP: Mouse testis lysate. ICC/IF: mES cells.
<b>General notes</b>	<p>ab228135 is the carrier-free version of <a href="#">ab215718</a>.</p> <p>Our <b>carrier-free</b> antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAB<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit</p>

monoclonal antibodies. For details on our patents, please refer to [RabMAb® patents](#).

## Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C. Do Not Freeze.
<b>Storage buffer</b>	pH: 7.2 Constituent: PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR21028
<b>Isotype</b>	IgG

## Applications

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**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab228135 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		Use at an assay dependent concentration. Detects a band of approximately 38 kDa (predicted molecular weight: 33 kDa).
IHC-Fr		Use at an assay dependent concentration. Perform heat mediated antigen retrieval by using sodium citrate buffer (pH 6.0).
IP		Use at an assay dependent concentration.

## Target

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<b>Function</b>	RNA-binding protein, which is essential for gametogenesis. Plays a central role during spermatogenesis. May act by binding to the 3'-UTR of mRNA and thereby regulating the translation of key transcripts.
<b>Tissue specificity</b>	Testis specific.
<b>Sequence similarities</b>	Belongs to the RRM DAZ family. Contains 1 DAZ-like domain. Contains 1 RRM (RNA recognition motif) domain.

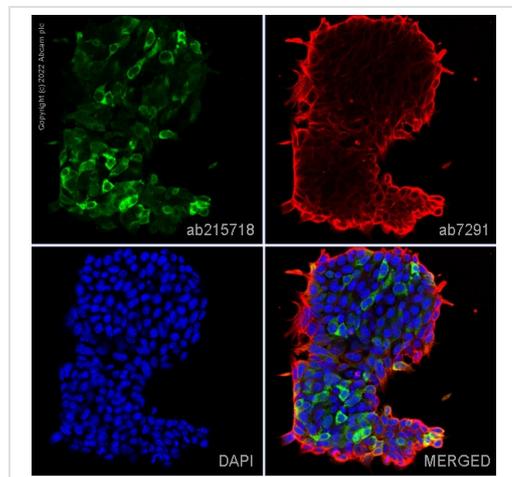
## Domain

The DAZ-like domain mediates the interaction with DAZAP1 and DAZAP2.

## Cellular localization

Cytoplasm. Nucleus. Predominantly cytoplasmic (By similarity). Nuclear in spermatogonia until near the end of the meiotic prophase and cytoplasmic localization from then onward.

## Images



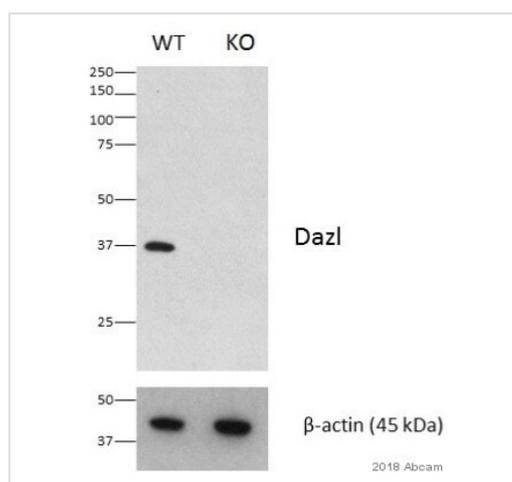
Immunocytochemistry/ Immunofluorescence - Anti-DAZL antibody [EPR21028] - BSA and Azide free (ab228135)

This data was developed using the same antibody clone in a different buffer formulation containing PBS and sodium azide (**ab215718**).

**ab215718** staining DAZL in mES cells. The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.1% PBS-Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1%PBS-Tween for 1h. The cells were then incubated overnight at 4°C with **ab215718** at 1µg/ml and **ab7291**, Mouse monoclonal [DM1A] to alpha Tubulin - Loading Control. Cells were then incubated with **ab150081**, Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 488), pre-adsorbed at 1/1000 dilution (shown in green) and **ab150120**, Goat polyclonal Secondary Antibody to Mouse IgG - H&L (Alexa Fluor® 594), pre-adsorbed at 1/1000 dilution (shown in pseudocolour red). Nuclear DNA was labelled with DAPI (shown in blue).

Also suitable in cells fixed with 100% methanol (5 min).

Image was acquired with a confocal microscope (Leica-Microsystems TCS SP8) and a single confocal section is shown.



Western blot - Anti-DAZL antibody [EPR21028] - BSA and Azide free (ab228135)

This image is courtesy of an anonymous collaborator abreview.

**All lanes** : Anti-DAZL antibody [EPR21028] (**ab215718**) at 1/1000 dilution

**Lane 1** : Mouse testis tissue lysate

**Lane 2** : DAZL knockout mouse testis tissue lysate

Lysates/proteins at 25 µg per lane.

### Secondary

**All lanes** : HRP-conjugated horse anti-rabbit IgG at 1/10000 dilution

Developed using the ECL technique.

Performed under non-reducing conditions.

**Predicted band size:** 33 kDa

**Observed band size:** 37 kDa

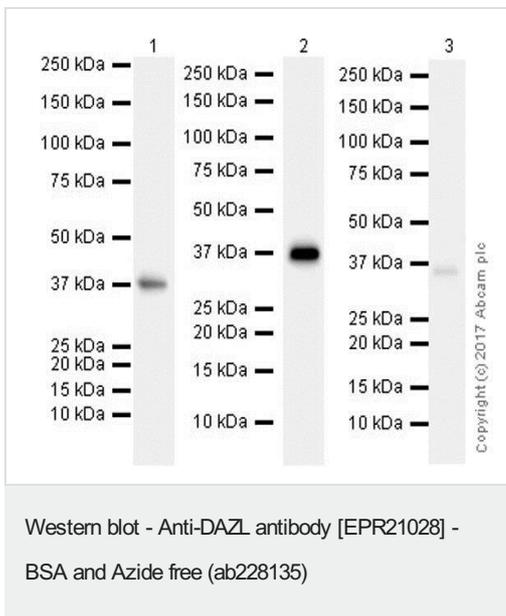
**Exposure time:** 3 seconds

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab215718](#)).

10% gel.

Blocked with 5% milk for 1 hour at room temperature.

Incubated with the primary antibody for 12 hours at 4°C in TBST.



**All lanes :** Anti-DAZL antibody [EPR21028] ([ab215718](#)) at 1/1000 dilution

**Lane 1 :** Mouse testis lysate

**Lane 2 :** Rat testis lysate

**Lane 3 :** Human testis lysate

Lysates/proteins at 20 µg per lane.

#### **Secondary**

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

Developed using the ECL technique.

**Predicted band size:** 33 kDa

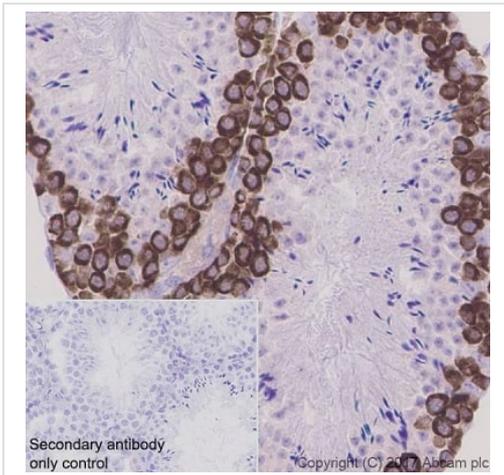
**Observed band size:** 38 kDa

**Exposure time:** 3 minutes

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab215718](#)).

Blocking/Dilution buffer: 5% NFD/MTBST.

The blot was developed on a BIO-RAD® ChemiDoc™ MP instrument.



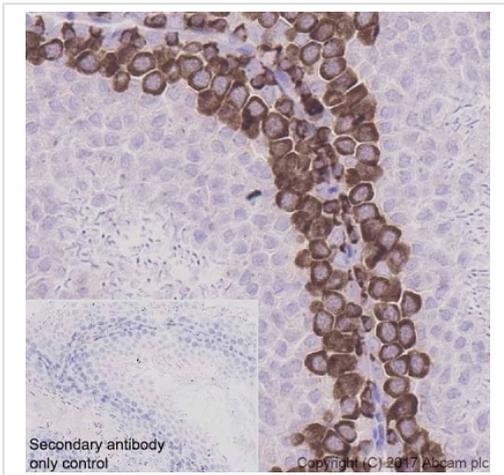
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DAZL antibody [EPR21028] - BSA and Azide free (ab228135)

Immunohistochemical analysis of paraffin-embedded mouse testis tissue labeling DAZL with **ab215718** at 1/4000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Cytoplasmic staining in spermatogonia and primary spermatocytes of mouse testis (PMID: 24746554) is observed. Counterstained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab215718**).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



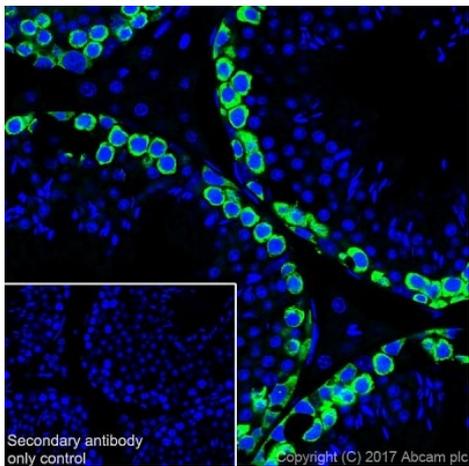
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DAZL antibody [EPR21028] - BSA and Azide free (ab228135)

Immunohistochemical analysis of paraffin-embedded rat testis tissue labeling DAZL with **ab215718** at 1/4000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Cytoplasmic staining in spermatogonia and primary spermatocytes of rat testis (PMID: 24746554) is observed. Counterstained with hematoxylin

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab215718**).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



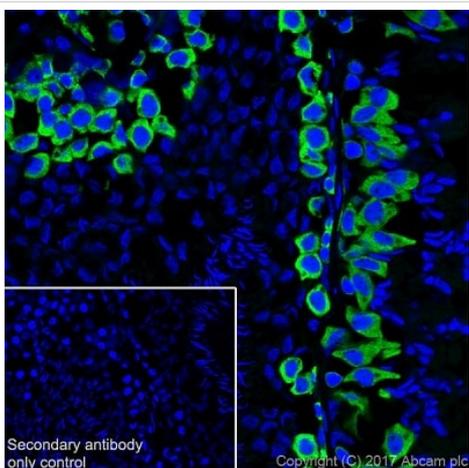
Immunohistochemistry (Frozen sections) - Anti-DAZL antibody [EPR21028] - BSA and Azide free (ab228135)

Immunohistochemical analysis of 4% paraformaldehyde-fixed, 0.2% Triton-X-100 permeabilized frozen mouse testis tissue labeling DAZL with **ab215718** at 1/300 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green). Cytoplasmic staining in the pachytene spermatocytes and secondary spermatocytes, not present in Sertoli, Leydig or myoid cells (PMID: 24746554).

The nuclear counter stain is DAPI (blue).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab215718**).



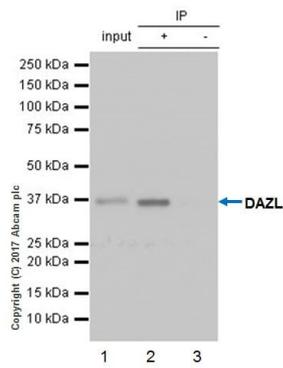
Immunohistochemistry (Frozen sections) - Anti-DAZL antibody [EPR21028] - BSA and Azide free (ab228135)

Immunohistochemical analysis of 4% paraformaldehyde-fixed, 0.2% Triton-X-100 permeabilized frozen rat testis tissue labeling DAZL with **ab215718** at 1/60 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green). Cytoplasmic staining in the pachytene spermatocytes and secondary spermatocytes, not present in Sertoli, Leydig or myoid cells (PMID: 24746554).

The nuclear counter stain is DAPI (blue).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab215718**).



Immunoprecipitation - Anti-DAZL antibody  
[EPR21028] - BSA and Azide free (ab228135)

DAZL was immunoprecipitated from 0.35 mg mouse testis lysate with **ab215718** at 1/30 dilution. Western blot was performed from the immunoprecipitate using **ab215718** at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/10000 dilution.

Lane 1: Mouse testis lysate 10 µg (Input).

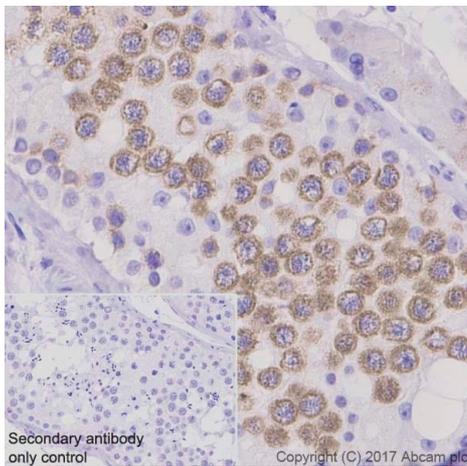
Lane 2: **ab215718** IP in mouse testis lysate.

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of **ab215718** in mouse testis lysate.

Blocking and dilution buffer and concentration: 5% NFDm/TBST.

Exposure time: 3 seconds.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab215718**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DAZL antibody  
[EPR21028] - BSA and Azide free (ab228135)

Immunohistochemical analysis of paraffin-embedded human testis tissue labeling DAZL with **ab215718** at 1/8000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Cytoplasmic staining in primary spermatocytes of human testis (PMID: 24746554) is observed. Counterstained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab215718**).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-DAZL antibody [EPR21028] - BSA and Azide free (ab228135)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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