abcam

Product datasheet

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

KO VALIDATED Recombinant RabMAb

10 Images

Overview

Product name	Anti-DAZL antibody [EPR21028] - BSA and Azide free
Description	Rabbit monoclonal [EPR21028] to DAZL - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** ICC/IF, IHC-P, WB, IHC-Fr, IP
Species reactivity	**Reacts with:** Mouse, Rat, Human **Predicted to work with:** Sheep, Horse, Cow, Pig
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	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.
General notes	ab228135 is the carrier-free version of **ab215718**. Our **carrier-free** 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. 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. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit

monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

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

Applications

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.

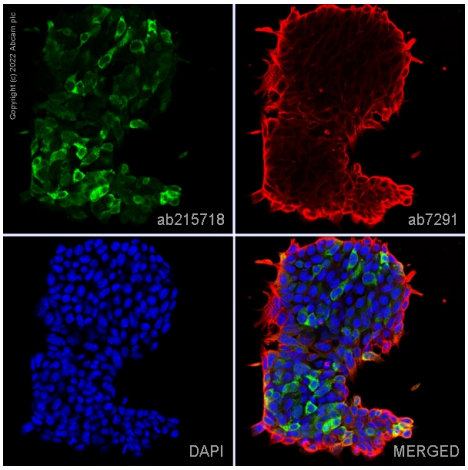
Application	Abreviews	Notes
ICC/IF		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		Use at an assay dependent concentration. Detects a band of 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

Function	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.
Tissue specificity	Testis specific.
Sequence similarities	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



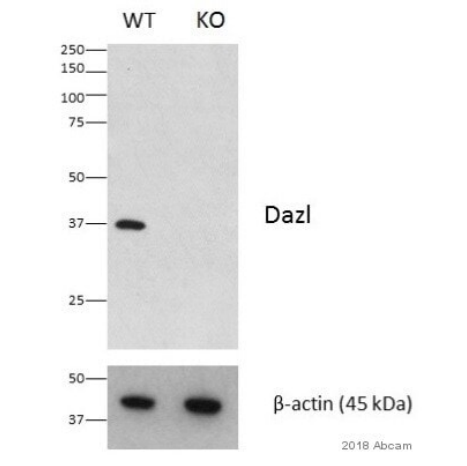
Immunocytochemistry/ Immunofluorescence - Anti-DAZL antibody [EPR21028] - BSA and Azide free (ab228135)

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

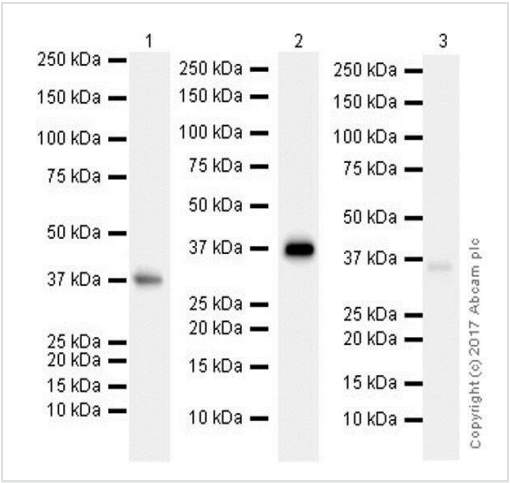
Exposure time: 3 seconds

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.



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

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.

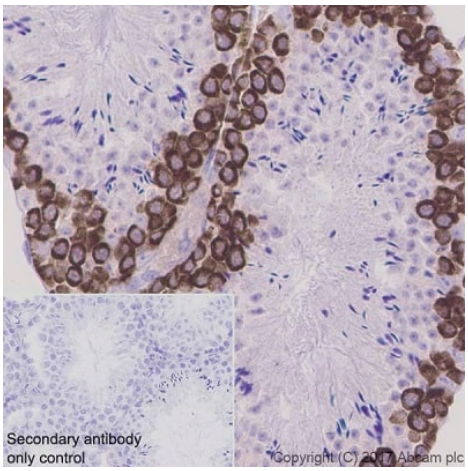
Predicted band size: 33 kDa
Observed band size: 38 kDa

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% NFDM/TBST.

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



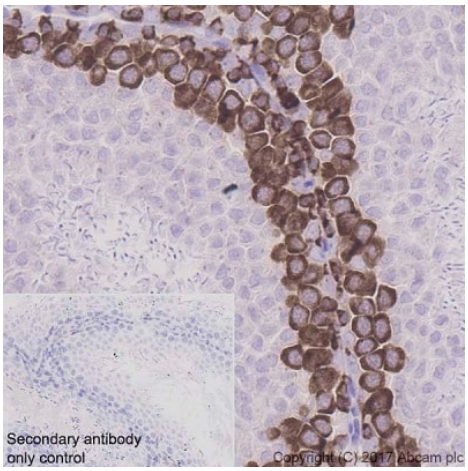
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DAZL antibody [EPR21028] - BSA and Azide free (ab228135)

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.



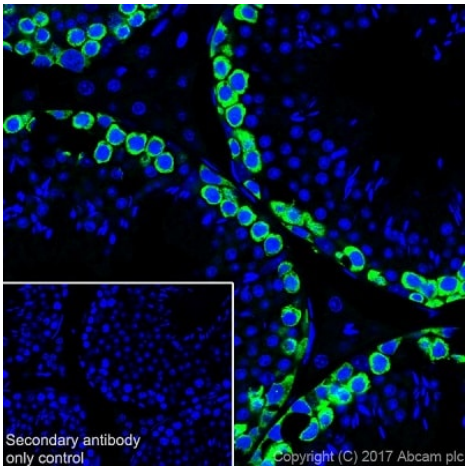
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DAZL antibody [EPR21028] - BSA and Azide free (ab228135)

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.



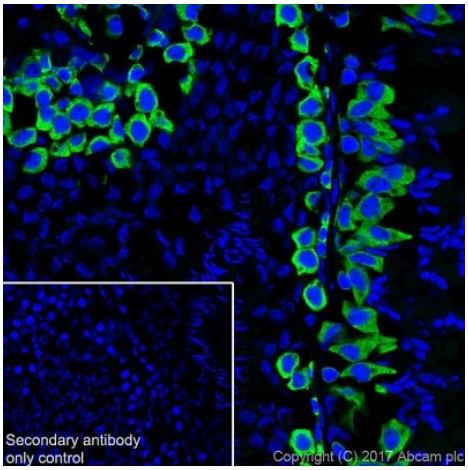
Immunohistochemistry (Frozen sections) - Anti-DAZL antibody [EPR21028] - BSA and Azide free (ab228135)

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**).



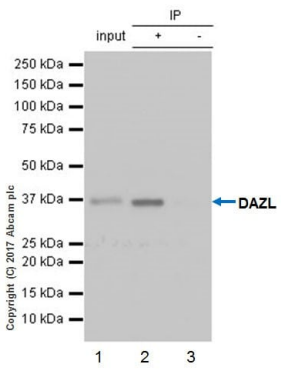
Immunohistochemistry (Frozen sections) - Anti-DAZL antibody [EPR21028] - BSA and Azide free (ab228135)

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).

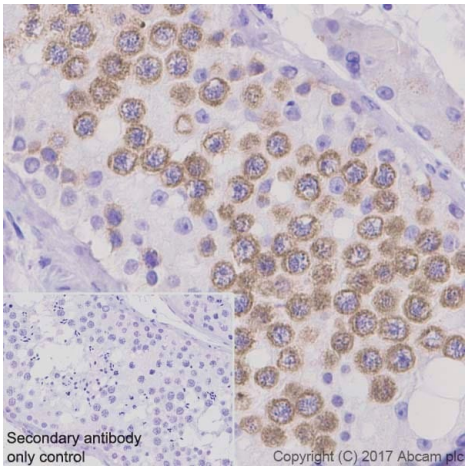
Lane 2: **ab215718** IP in mouse testis lysate.

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.

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

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.com/abpromise** or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors