abcam

Product datasheet

Anti-DAZL antibody [EPR21028] ab215718

KO VALIDATED Recombinant RabMAb

8 Abreviews 2 References 10 Images

Overview

Product name	Anti-DAZL antibody [EPR21028]
Description	Rabbit monoclonal [EPR21028] to DAZL
Host species	Rabbit
Tested applications	**Suitable for:** WB, IHC-P, IHC-Fr, IP, ICC
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.
General notes	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 short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 0.05% BSA, 40% Glycerol (glycerin, glycerine)
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR21028

Isotype	IgG

Applications

The Abpromise guarantee Our Abpromise guarantee covers the use of ab215718 in the following tested applications.

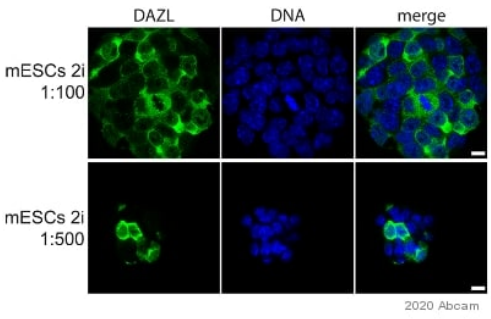
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (1)	1/1000. Detects a band of approximately 38 kDa (predicted molecular weight: 33 kDa).
IHC-P	★★★★★ (3)	1/8000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. (Human); 1/4000 (Mouse and rat).
IHC-Fr	★★★★☆ (1)	1/300. (Mouse); 1/60 (Rat). Perform heat mediated antigen retrieval by using sodium citrate buffer (pH 6.0).
IP		1/30.
ICC		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.

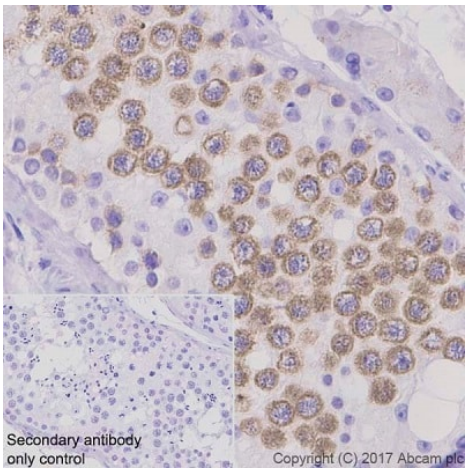
Images



Immunocytochemistry - Anti-DAZL antibody [EPR21028] (ab215718)

This image is courtesy of an Abreview submitted by Dr. Ina Theofel

Immunocytochemistry analysis of mESCs cultured in 2i conditions labelling DAZL with ab215718 at 1/500 dilution. Cells were fixed with 4% formaldehyde and permeabilized with 0.1% Triton X-100. Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/4000 was used as the secondary antibody (green). Nuclear DNA was labelled with DAPI (blue).

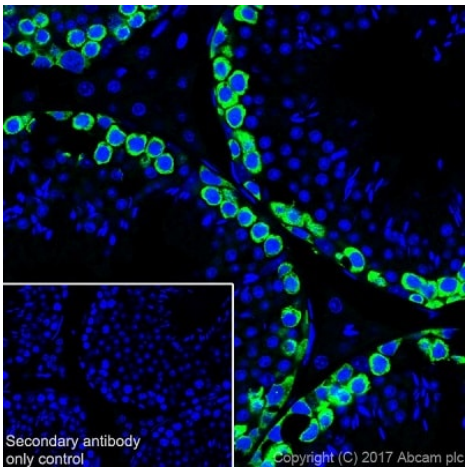


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DAZL antibody [EPR21028] (ab215718)

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.

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

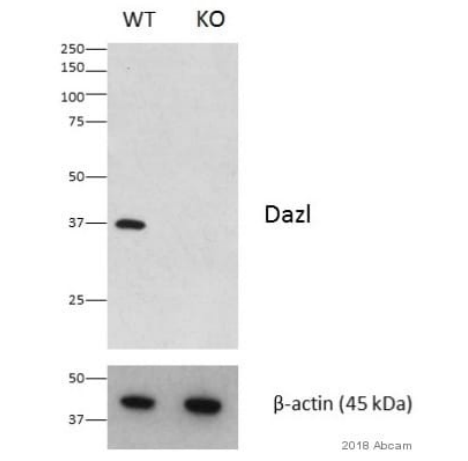


Immunohistochemistry (Frozen sections) - Anti-DAZL antibody [EPR21028] (ab215718)

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® 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.



Western blot - Anti-DAZL antibody [EPR21028] (ab215718)

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.

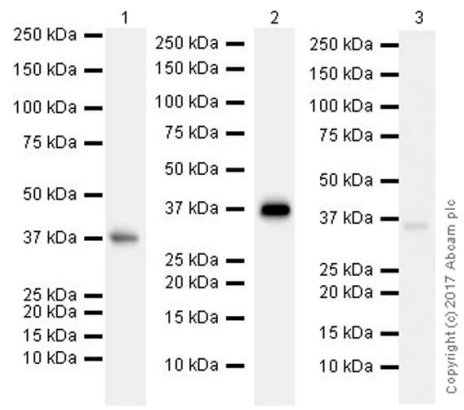
Predicted band size: 33 kDa
Observed band size: 37 kDa

Exposure time: 3 seconds

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] (ab215718)

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

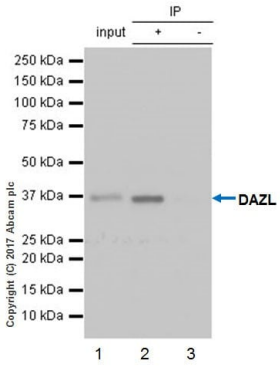
Developed using the ECL technique.

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

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.

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



Immunoprecipitation - Anti-DAZL antibody [EPR21028] (ab215718)

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 1/10,000 dilution.

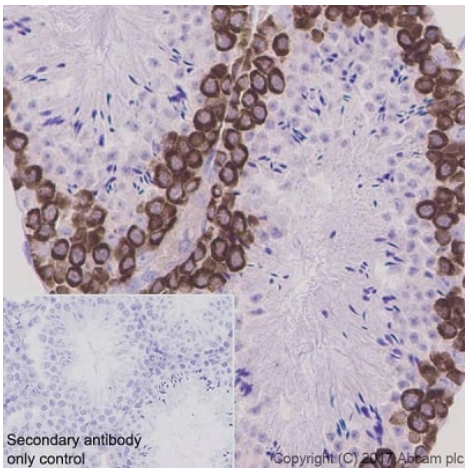
Lane 1: Mouse testis lysate 10 µg (Input).

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.

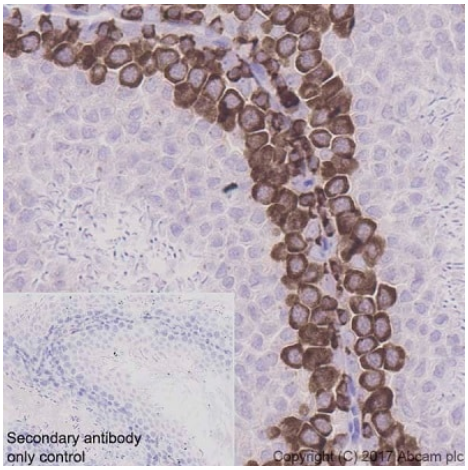


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DAZL antibody [EPR21028] (ab215718)

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.

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

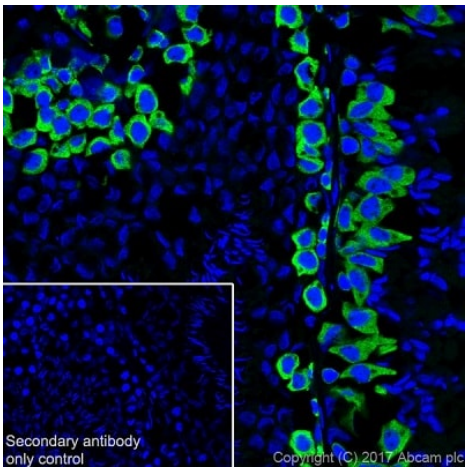


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DAZL antibody [EPR21028] (ab215718)

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.

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

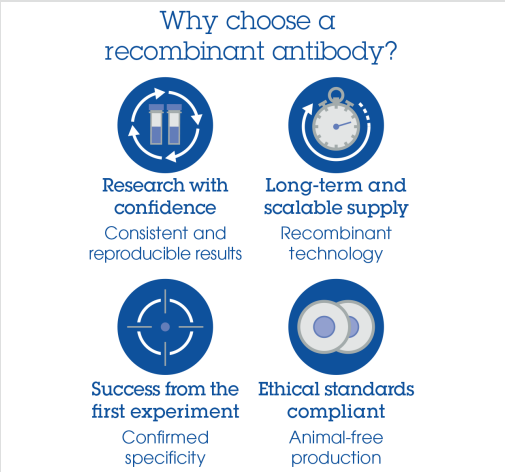


Immunohistochemistry (Frozen sections) - Anti-DAZL antibody [EPR21028] (ab215718)

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.



Anti-DAZL antibody [EPR21028] (ab215718)

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