

## Product datasheet

# Anti-PDILT antibody ab191851

6 Images

### Overview

<b>Product name</b>	Anti-PDILT antibody
<b>Description</b>	Rabbit polyclonal to PDILT
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IP, IHC-Fr, IHC-P, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse
<b>Immunogen</b>	<p><b>This product was produced with the following immunogens:</b></p> <p>Synthetic peptide corresponding to Mouse PDILT aa 550-563 conjugated to Keyhole Limpet Haemocyanin (KLH) (Cysteine residue).</p> <p>Sequence:</p> <p>IRKPEEPERRKETA</p> <p>Database link: <a href="#">Q9DAN1</a></p>

Synthetic peptide corresponding to Mouse PDILT aa 571-584 conjugated to Keyhole Limpet Haemocyanin (KLH) (Cysteine residue).

Sequence: QPK EQPKPERKLEV

Database link: [Q9DAN1](#)

 [Run BLAST with ExPASy](#)

 [Run BLAST with NCBI](#)

 [Run BLAST with NCBI](#)

<b>Positive control</b>	Testes extracts from wild-type and PDILT single knock-out mice; mouse testis tissue extract; mouse testicular section.
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**General notes**

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been "predicted to work with," however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

## Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	pH: 6 Preservative: 0.1% Sodium azide
<b>Purity</b>	Whole antiserum
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

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Our [Abpromise guarantee](#) covers the use of **ab191851** 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		1/1000. Predicted molecular weight: 68 kDa.
IP		1/100.
IHC-Fr		1/100 - 1/500.
IHC-P		1/100 - 1/500.
ICC/IF		1/100.

## Target

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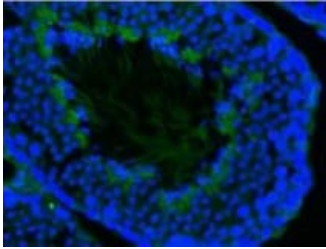
<b>Function</b>	Probable redox-inactive chaperone involved in spermatogenesis.
<b>Tissue specificity</b>	Testis-specific.
<b>Sequence similarities</b>	Belongs to the protein disulfide isomerase family. Contains 1 thioredoxin domain.
<b>Domain</b>	The thioredoxin domain lacks the conserved redox-active Cys at position 417 which is replaced by a Ser residue, suggesting that it lacks thioredoxin activity.
<b>Post-translational</b>	N-glycosylated.

## modifications

### Cellular localization

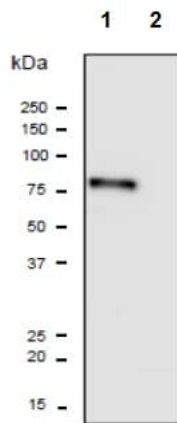
Endoplasmic reticulum.

## Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PDILT antibody (ab191851)

Immunohistochemical staining of paraffin embedded mouse testis tissue using ab191851 at a dilution of 1/1000. The secondary antibody was used at a dilution of 1/1000 and the sample was counter stained with DAPI.



Western blot - Anti-PDILT antibody (ab191851)

**All lanes :** Anti-PDILT antibody (ab191851) at 1/1000 dilution

**Lane 1 :** Mouse testis tissue lysate

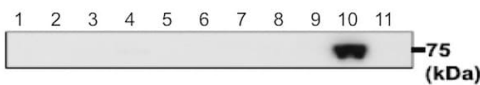
**Lane 2 :** Mouse sperm cell lysate

Lysates/proteins at 10 µg per lane.

### Secondary

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

**Predicted band size:** 68 kDa



Western blot - Anti-PDILT antibody (ab191851)

**All lanes :** Anti-PDILT antibody (ab191851) at 1/1000 dilution

**Lane 1 :** mouse brain tissue lysate at 30 µg

**Lane 2 :** mouse lung tissue lysate at 30 µg

**Lane 3 :** mouse heart tissue lysate at 30 µg

**Lane 4 :** mouse thymus tissue lysate at 30 µg

**Lane 5 :** mouse liver tissue lysate at 30 µg

**Lane 6 :** mouse spleen tissue lysate at 30 µg

**Lane 7 :** mouse kidney tissue lysate at 30 µg

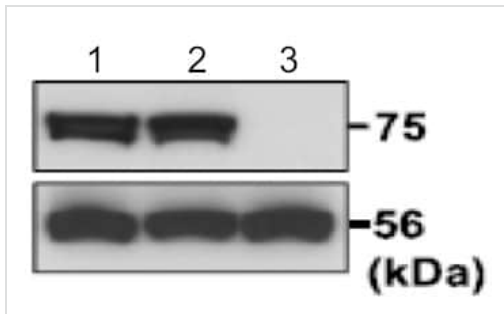
**Lane 8 :** mouse muscle tissue lysate at 30 µg

**Lane 9 :** mouse ovary tissue lysate at 30 µg

**Lane 10 :** mouse testis tissue lysate at 30 µg

**Lane 11 :** mouse sperm lysate at 10 µg

**Predicted band size:** 68 kDa



Western blot - Anti-PDILT antibody (ab191851)

**All lanes :** Anti-PDILT antibody (ab191851) at 1/1000 dilution

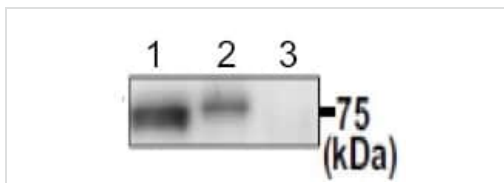
**Lane 1 :** Testes extracts from wild-type (+/+) mice

**Lane 2 :** Testes extracts from PDILT single knock-out mice (+/-)

**Lane 3 :** Testes extracts from PDILT double knock-out mice (-/-)

**Predicted band size:** 68 kDa

Lower panel: detection of alpha tubulin was used as loading control.

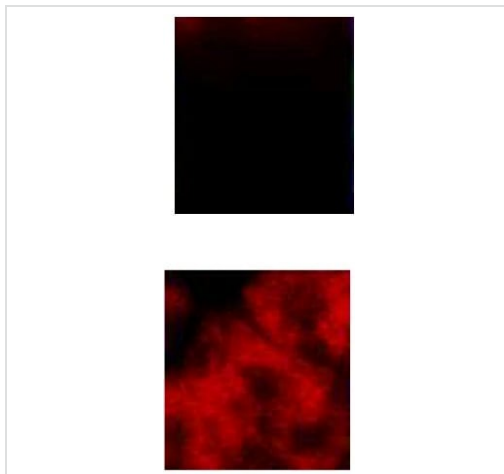


Immunoprecipitation - Anti-PDILT antibody (ab191851)

Immunoprecipitation of PDILT protein from mouse testis extracts.

Extracts (100 µg) of wild-type (+/+) and PDILT (-/-) knock out mouse testes were immunoprecipitated with ab191851 at 1/100 dilution and the precipitates were analyzed by western blotting using ab191851 at 1/1000 dilution.

1. Input. 2. Wild-type. 3. PDILT (-/-) knock out



Immunocytochemistry/ Immunofluorescence - Anti-PDILT antibody (ab191851)

Immunofluorescent analysis of paraformaldehyde-fixed, cryopreserved in graded 10-30% sucrose, and embedded in a TissueTek OCT compound mouse testicular sections labeling PDILT with ab191851 at 1/100 and as a secondary antibody, Alexa Fluor 546 conjugated anti-rabbit IgG antibody was used. Image at the top: mouse spermatocyte; image at the bottom mouse spermatid.

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

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