

## Product datasheet

# Anti-PRPF8/Prp8 antibody [2834C1 $\alpha$ ] ab51366

[2 References](#) [4 Images](#)

### Overview

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<b>Product name</b>	Anti-PRPF8/Prp8 antibody [2834C1a]
<b>Description</b>	Mouse monoclonal [2834C1a] to PRPF8/Prp8
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt, WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human
<b>Immunogen</b>	Recombinant fragment corresponding to Human PRPF8/Prp8.
<b>Positive control</b>	NIH3T3 whole cell lysate, HeLa whole cell lysate This antibody gave a positive result in IHC in the following FFPE tissue: Human normal cervix.
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>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, along with publications, customer reviews and Q&amp;As</p>

### 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.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.05% Sodium azide Constituents: 1% BSA, PBS
<b>Purity</b>	Protein G purified
<b>Purification notes</b>	Filtered through a 0.22 $\mu$ m membrane.
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	2834C1a
<b>Isotype</b>	IgG1

## Applications

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**The Abpromise guarantee** Our [Abpromise guarantee](#) covers the use of ab51366 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
Flow Cyt		Use 2µg for 10 <sup>6</sup> cells. <a href="#">ab170190</a> - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
WB		1/100. Predicted molecular weight: 273 kDa.
IHC-P		Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

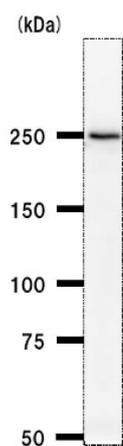
## Target

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<b>Function</b>	Central component of the spliceosome, which may play a role in aligning the pre-mRNA 5'- and 3'-exons for ligation. Interacts with U5 snRNA, and with pre-mRNA 5'-splice sites in B spliceosomes and 3'-splice sites in C spliceosomes.
<b>Tissue specificity</b>	Widely expressed.
<b>Involvement in disease</b>	Defects in PRPF8 are the cause of retinitis pigmentosa type 13 (RP13) [MIM:600059]. RP leads to degeneration of retinal photoreceptor cells. Patients typically have night vision blindness and loss of midperipheral visual field. As their condition progresses, they lose their far peripheral visual field and eventually central vision as well. RP13 inheritance is autosomal dominant.
<b>Sequence similarities</b>	Contains 1 MPN (JAB/Mov34) domain.
<b>Domain</b>	The MPN domain has structural similarity with viral ribonucleases and RNase H, but unlike RNases, it does not bind any metal ions.
<b>Post-translational modifications</b>	Phosphorylated upon DNA damage, probably by ATM or ATR.
<b>Cellular localization</b>	Nucleus speckle.

## Images

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Western blot - Anti-PRPF8/Prp8 antibody [2834C1a] (ab51366)

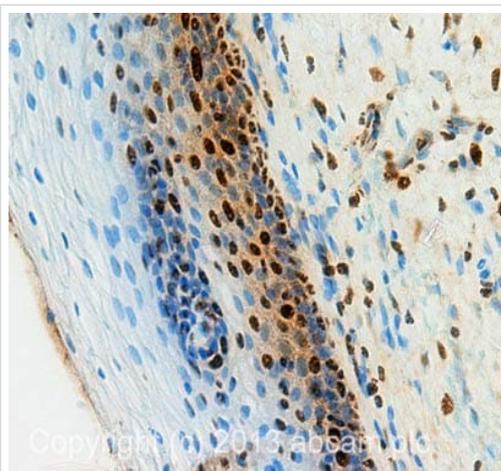
Anti-PRPF8/Prp8 antibody [2834C1a] (ab51366) at 1/100 dilution  
+ HeLa whole cell lysate at 25 µg

### Secondary

Anti mouse IgG antibody at 1/2500 dilution

**Predicted band size:** 273 kDa

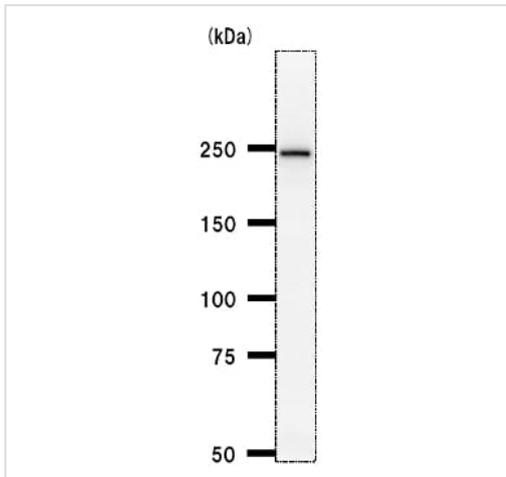
**Observed band size:** 250 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PRPF8/Prp8 antibody [2834C1a] (ab51366)

IHC image of PRPF8/Prp8 staining in Human Normal Cervix formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab51366, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



Western blot - Anti-PRPF8/Prp8 antibody [2834C1a] (ab51366)

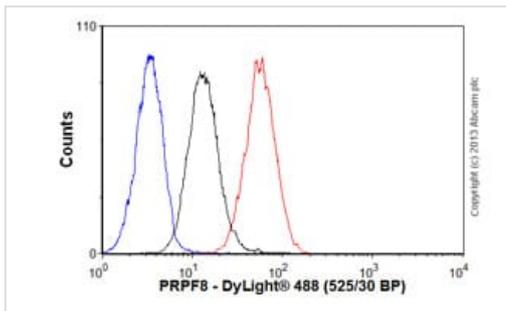
Anti-PRPF8/Prp8 antibody [2834C1a] (ab51366) at 1/100 dilution  
+ NIH3T3 whole cell lysate at 25 µg

#### Secondary

Anti mouse IgG antibody at 1/2500 dilution

**Predicted band size:** 273 kDa

**Observed band size:** 250 kDa



Flow Cytometry - Anti-PRPF8/Prp8 antibody [2834C1a] (ab51366)

Overlay histogram showing HeLa cells stained with ab51366 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab51366, 2µg/1x10<sup>6</sup> cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (ab96879) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (ab91353, 2µg/1x10<sup>6</sup> cells) used under the same conditions. Unlabelled sample (blue line). Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter.

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

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