**Product datasheet**

**Anti-Myelin PLP antibody [plpc 1] ab9311**

★★★★☆ 5 Abreviews   10 References   1 Image

### Overview

**Product name**  
Anti-Myelin PLP antibody [plpc 1]

**Description**  
Mouse monoclonal [plpc 1] to Myelin PLP

**Host species**  
Mouse

**Specificity**  
This antibody recognizes myelin proteolipid protein

**Tested applications**  
Suitable for: ICC/IF

**Species reactivity**  
Reacts with: Mouse, Rat, Cow

**Immunogen**  
Synthetic peptide:

C-GRGTKF  
, corresponding to amino acids 272-277 of Myelin PLP.

### 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
Form
Liquid

Storage instructions
Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

Storage buffer
Preservative: 0.1% Sodium azide

Purity
Protein G purified

Clonality
Monoclonal

Clone number
plpc 1

Myeloma
Sp2/0

Isotype
IgG2a

Light chain type
unknown

Applications
Our Abpromise guarantee covers the use of ab9311 in the following tested applications.

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

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICC/IF</td>
<td><img src="https://www.abcam.com/ab9311/rating" alt="Rating" /></td>
<td>1/100.</td>
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</tbody>
</table>

Target

Function
This is the major myelin protein from the central nervous system. It plays an important role in the formation or maintenance of the multilamellar structure of myelin.

Involvement in disease
Defects in PLP1 are the cause of leukodystrophy hypomyelinating type 1 (HLD1) [MIM:312080]; also known as Pelizaeus-Merzbacher disease. HLD1 is an X-linked recessive dysmyelinating disorder of the central nervous system in which myelin is not formed properly. It is characterized clinically by nystagmus, spastic quadriplegia, ataxia, and developmental delay.
Defects in PLP1 are the cause of spastic paraplegia X-linked type 2 (SPG2) [MIM:312920]. SPG2 is characterized by spastic gait and hyperreflexia. In some patients, complicating features include nystagmus, dysarthria, sensory disturbance, mental retardation, optic atrophy.

Sequence similarities
Belongs to the myelin proteolipid protein family.

Cellular localization
Membrane.

Images
ab9311 at a dilution of 1/1000, staining neuronal Myelin PLP (Alexa 488 secondary at 1/2000) in rat brain tissue (30µm thick coronal sections) on free floating IHC (see protocol link for detailed description). Image taken with a 40x objective. No labeling observed following omission of primary antibody.

Sections were viewed using an Axioplan 2 Imaging microscope (Imaging Associates) fitted with 10x, 20x and 40x Plan-Neofluor objectives (Zeiss, Germany) and images were taken using a AxioCam Hmr digital camera (Zeiss, Germany) and AxioVision software (Imaging Associates)

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.

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