

## Product datasheet

# Anti-Myelin oligodendrocyte glycoprotein antibody [EPR22629-310] ab233549

Recombinant RabMAb

★★★★★ **3 Abreviews** [9 Images](#)

### Overview

<b>Product name</b>	Anti-Myelin oligodendrocyte glycoprotein antibody [EPR22629-310]
<b>Description</b>	Rabbit monoclonal [EPR22629-310] to Myelin oligodendrocyte glycoprotein
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, WB, IHC-Fr, IP
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: Human brain tissue lysate; mouse brain tissue lysate; rat brain tissue lysate. IP: Mouse brain tissue lysate. IHC-P: Human cerebellum tissue; mouse cerebellum tissue; rat cerebellum tissue. IHC-Fr: Mouse cerebellum tissue; rat cerebellum tissue.
<b>General notes</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

### Properties

<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>	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 40% Glycerol (glycerin, glycerine), 0.05% BSA, PBS</p>
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal

Clone number	EPR22629-310
Isotype	IgG

## Applications

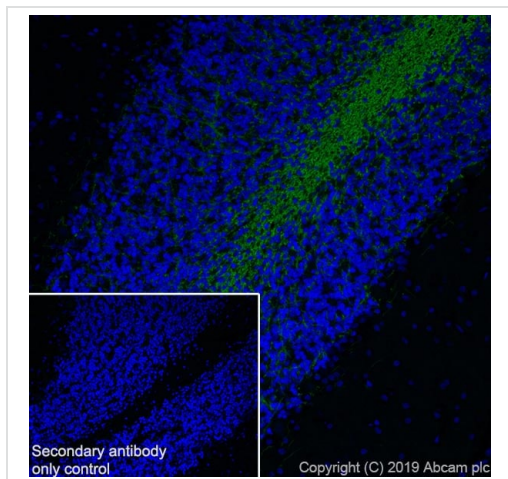
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab233549 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P	★★★★★ (2)	1/500. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		1/1000. Detects a band of approximately 28 kDa (predicted molecular weight: 28 kDa).
IHC-Fr		1/500. Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20).
IP		1/30.

## Target

<b>Function</b>	Mediates homophilic cell-cell adhesion (By similarity). Minor component of the myelin sheath. May be involved in completion and/or maintenance of the myelin sheath and in cell-cell communication.
<b>Tissue specificity</b>	Found exclusively in the CNS, where it is localized on the surface of myelin and oligodendrocyte cytoplasmic membranes.
<b>Sequence similarities</b>	Belongs to the immunoglobulin superfamily. BTN/MOG family. Contains 1 Ig-like V-type (immunoglobulin-like) domain.
<b>Cellular localization</b>	Cell membrane.

## Images

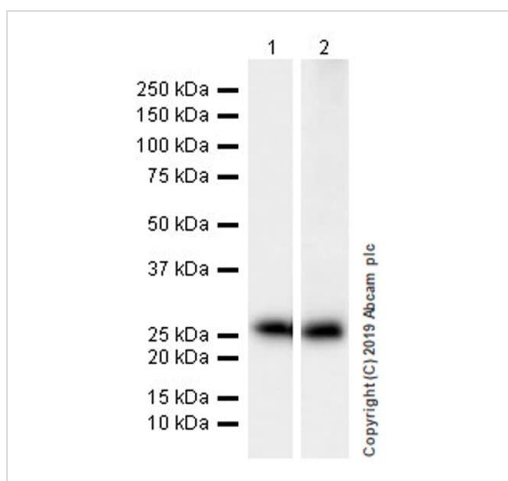


Immunohistochemistry (Frozen sections) - Anti-Myelin oligodendrocyte glycoprotein antibody [EPR22629-310] (ab233549)

Frozen section of 4% PFA-fixed, 0.2% Triton X-100 permeabilized rat cerebellum tissue labeling Myelin oligodendrocyte glycoprotein with ab233549 at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) ([ab150077](#)), at 1/1000 dilution (green). Positive staining on nerve fiber tracts in rat cerebellum (PMID: 26347141) is observed. 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](#)), at 1/1000 dilution.

Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20).



Western blot - Anti-Myelin oligodendrocyte glycoprotein antibody [EPR22629-310] (ab233549)

**All lanes :** Anti-Myelin oligodendrocyte glycoprotein antibody [EPR22629-310] (ab233549) at 1/1000 dilution

**Lane 1 :** Mouse brain tissue lysate

**Lane 2 :** Rat brain tissue lysate

Lysates/proteins at 20 µg per lane.

#### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

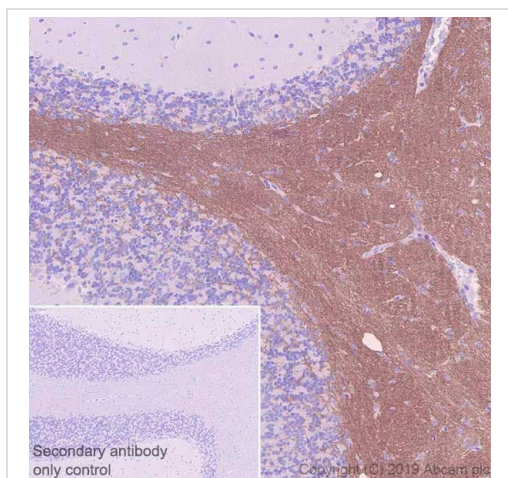
**Predicted band size:** 28 kDa

**Observed band size:** 28 kDa

Blocking and dilution buffer: 5% NFDM/TBST.

Exposure times.

Lane 1: 26 seconds; Lane 2: 10 seconds.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Myelin oligodendrocyte glycoprotein antibody [EPR22629-310] (ab233549)

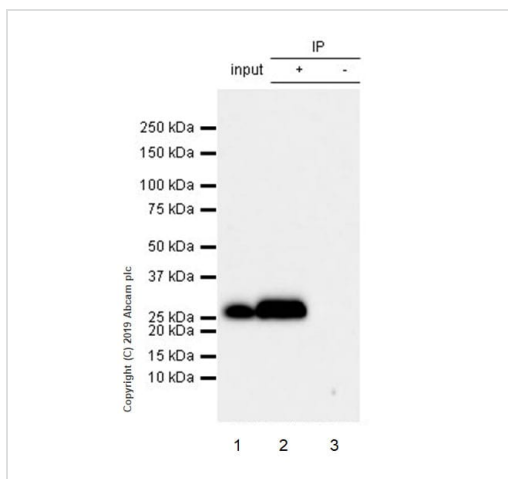
Immunohistochemical analysis of paraffin-embedded rat cerebellum tissue labeling Myelin oligodendrocyte glycoprotein with ab233549 at 1/500 dilution, followed by Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Positive staining on white matter of rat cerebellum (PMID: 25421634) is observed. Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

The section was incubated with ab233549 for 30 mins at room temperature.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument.

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20mins.



Immunoprecipitation - Anti-Myelin oligodendrocyte glycoprotein antibody [EPR22629-310] (ab233549)

Myelin oligodendrocyte glycoprotein was immunoprecipitated from 0.35 mg of mouse brain tissue lysate whole cell lysate with ab233549 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab233549 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used as secondary antibody at 1/5000 dilution.

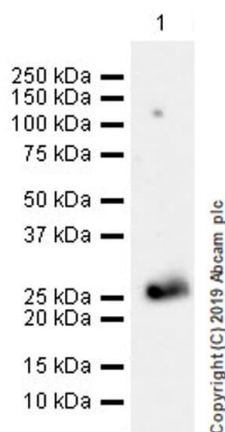
**Lane 1:** Mouse brain tissue lysate 10 µg (Input).

**Lane 2:** ab233549 IP in mouse brain tissue lysate.

**Lane 3:** Rabbit monoclonal IgG (**ab172730**) instead of ab233549 in mouse brain tissue lysate.

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 30 seconds.



Western blot - Anti-Myelin oligodendrocyte glycoprotein antibody [EPR22629-310] (ab233549)

Anti-Myelin oligodendrocyte glycoprotein antibody [EPR22629-310] (ab233549) at 1/1000 dilution + Human brain tissue lysate at 20 µg

### Secondary

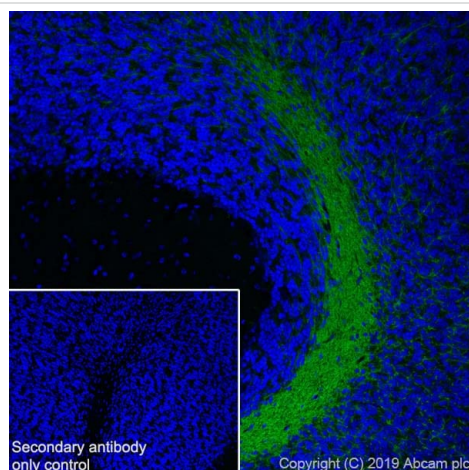
VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) at 1/1000 dilution

**Predicted band size:** 28 kDa

**Observed band size:** 28 kDa

**Exposure time:** 3 minutes

Blocking and dilution buffer: 5% NFDM/TBST.



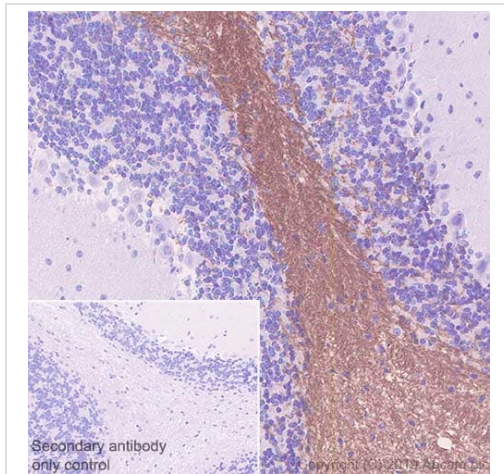
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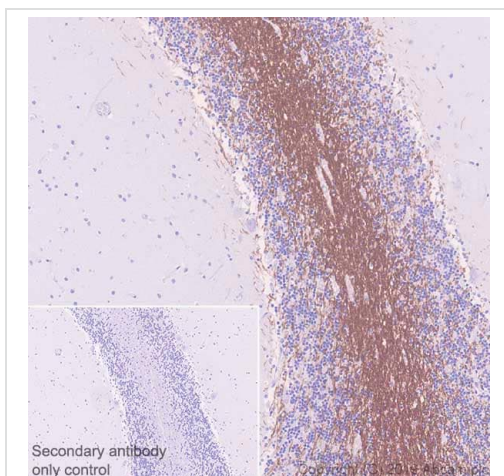
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Immunohistochemical analysis of paraffin-embedded human cerebellum tissue labeling Myelin oligodendrocyte glycoprotein with ab233549 at 1/500 dilution, followed by Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)). Positive staining on white matter of human cerebellum (PMID: 25421634) is observed. Counter stained with hematoxylin.

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### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-Myelin oligodendrocyte glycoprotein antibody  
[EPR22629-310] (ab233549)

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

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- Response to your inquiry within 24 hours
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- Extensive multi-media technical resources to help you
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