




Product datasheet

Anti-Myelin PLP antibody ab28486

★★★★★ [13 Abreviews](#) [78 References](#) [2 Images](#)

Overview

Product name	Anti-Myelin PLP antibody
Description	Rabbit polyclonal to Myelin PLP
Host species	Rabbit
Specificity	ab28486 recognises PLP
Tested applications	Suitable for: IHC-P
Species reactivity	Reacts with: Mouse Predicted to work with: Cow, Dog, Pig, Macaque monkey 
Immunogen	Synthetic peptide: CG KGLSATVTGG QKGRGSRG , corresponding to amino acids 109-128 of Mouse Myelin PLP  Run BLAST with  Run BLAST with
General notes	<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&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.05% Sodium azide Constituent: Whole serum
Purity	Whole antiserum
Clonality	Polyclonal
Isotype	IgG

Applications

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab28486 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)	Use at an assay dependent concentration.

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.

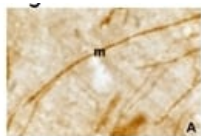
Sequence similarities

Belongs to the myelin proteolipid protein family.

Cellular localization

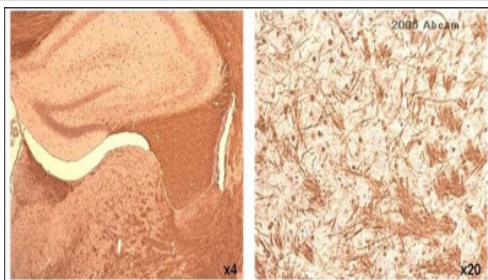
Membrane.

Images



Immunohistochemical staining of Myelin PLP in mouse brain thick section using ab28486 (1/1000 dilution). Staining (m) is limited to myelin tracts and oligodendrocytes.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Myelin PLP antibody (ab28486)



ab28486 at a 1/1000 dilution staining mouse brain (white matter) by IHC-P. The tissue was fixed in 10% formalin saline. Antigen retrieval was via hydrated autoclaving at 121°C for 15 minutes followed by 5 minutes in 98%formic acid. The antibody was incubated with the tissue for 16 hours and then bound antibody was detected using a biotinylated goat anti-rabbit IgG Fc.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Myelin PLP antibody (ab28486)

This image is courtesy of an anonymous Abreview

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