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Product datasheet

Anti-Myelin Basic Protein antibody ab134018

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概述

产品名称	Anti-Myelin Basic蛋白抗体
描述	鸡多克隆抗体to Myelin Basic蛋白
宿主	Chicken
经测试应用	**适用于:** IHC-P
种属反应性	**与反应:** Mouse
免疫原	A synthetic peptide, conjugated to KLH, corresponding to a region with the sequence of Human (NP_002376) and Mouse (NP_034907) Myelin Basic Protein.
常规说明	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. 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

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at -20°C or -80°C. Avoid freeze / thaw cycle. Store undiluted.
存储溶液	pH: 7 Preservative: 0.02% Sodium azide Constituent: 99% PBS
纯度	Immunogen affinity purified
纯化说明	Immune eggs were collected, and the IgY fractions were purified from the yolks. These IgY fractions were then affinity-purified using a peptide column, the concentrations of the eluate adjusted to 100 µg/ml, and the preparation was filter-sterilized.
克隆	**多克隆**
同种型	IgY

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab134018于以下的经测试应用**

"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
IHC-P		1/1000 - 1/2000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

靶标

功能 The classic group of MBP isoforms (isoform 4-isoform 14) are with PLP the most abundant protein components of the myelin membrane in the CNS. They have a role in both its formation and stabilization. The smaller isoforms might have an important role in remyelination of denuded axons in multiple sclerosis. The non-classic group of MBP isoforms (isoform 1-isoform 3/Golli-MBPs) may preferentially have a role in the early developing brain long before myelination, maybe as components of transcriptional complexes, and may also be involved in signaling pathways in T-cells and neural cells. Differential splicing events combined with optional post-translational modifications give a wide spectrum of isomers, with each of them potentially having a specialized function. Induces T-cell proliferation.

组织特异性 MBP isoforms are found in both the central and the peripheral nervous system, whereas Golli-MBP isoforms are expressed in fetal thymus, spleen and spinal cord, as well as in cell lines derived from the immune system.

疾病相关 Note=The reduction in the surface charge of citrullinated and/or methylated MBP could result in a weakened attachment to the myelin membrane. This mechanism could be operative in demyelinating diseases such as chronical multiple sclerosis (MS), and fulminating MS (Marburg disease).

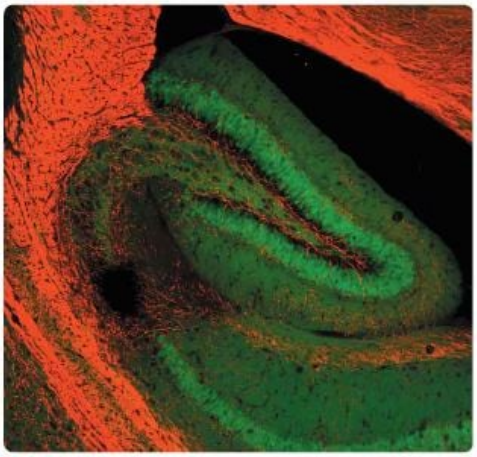
序列相似性 Belongs to the myelin basic protein family.

发展阶段 Expression begins abruptly in 14-16 week old fetuses. Even smaller isoforms seem to be produced during embryogenesis; some of these persisting in the adult. Isoform 4 expression is more evident at 16 weeks and its relative proportion declines thereafter.

翻译后修饰 Several charge isomers of MBP; C1 (the most cationic, least modified, and most abundant form), C2, C3, C4, C5, C6, C7, C8-A and C8-B (the least cationic form); are produced as a result of optional PTM, such as phosphorylation, deamidation of glutamine or asparagine, arginine citrullination and methylation. C8-A and C8-B contain each two mass isoforms termed C8-A(H), C8-A(L), C8-B(H) and C8-B(L), (H) standing for higher and (L) for lower molecular weight. C3, C4 and C5 are phosphorylated. The ratio of methylated arginine residues decreases during aging, making the protein more cationic.
The N-terminal alanine is acetylated (isoform 3, isoform 4, isoform 5 and isoform 6).
Arg-241 was found to be 6% monomethylated and 60% symmetrically dimethylated.

细胞定位 Myelin membrane. Cytoplasmic side of myelin.

图片



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Myelin Basic Protein antibody (ab134018)

Immunohistochemical analysis of a section of adult mouse brain labelling Myelin Basic Protein (red staining) of white matter tracts adjacent to the hippocampal formation with ab134018 at 1/1000 dilution. Green staining is autofluorescence from green fluorescent protein (GFP) expressed in this transgenic mouse.

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