

Product datasheet

HRP Anti-Myelin Basic Protein antibody ab77895

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Overview

Product name	HRP Anti-Myelin Basic Protein antibody
Description	HRP Rabbit polyclonal to Myelin Basic Protein
Host species	Rabbit
Conjugation	HRP
Tested applications	Suitable for: Sandwich ELISA
Species reactivity	Reacts with: Mouse, Human, Pig
Immunogen	Full length native protein (purified) corresponding to Cow Myelin Basic Protein.
General notes	<p>The purified antibody is conjugated to peroxidase (HRP) through reductive amination. Reductive amination with Ab/HRP ratio: 1/20.</p> <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. Store at +4°C.
Storage buffer	pH: 6.00 Constituents: 5% BSA, 2.94% Sodium citrate, Tris buffered saline
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab77895 in the following tested applications.

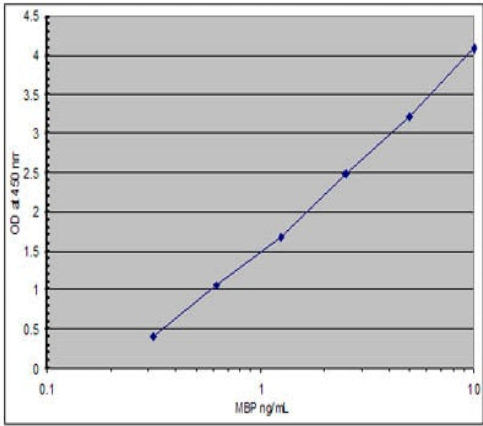
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Sandwich ELISA		1/10000. To be used as detection antibody. Pair with <u>ab28541 - Rabbit polyclonal to Myelin Basic Protein</u>

Target

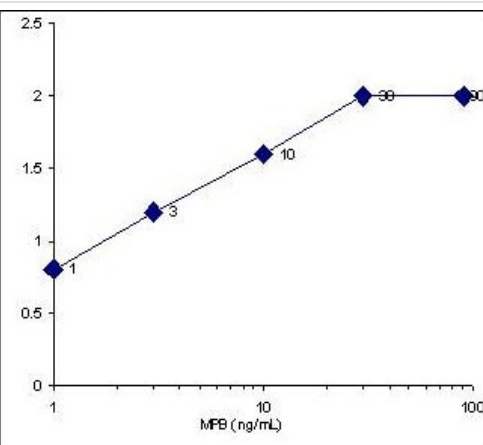
Function	The classic group of MBP isoforms (isoform 4-isoform 14) are with PLP the most abundant protein components of the myelin membrane in the CNS. They have a role in both its formation and stabilization. The smaller isoforms might have an important role in remyelination of denuded axons in multiple 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.
Tissue specificity	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.
Involvement in disease	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 chronic multiple sclerosis (MS), and fulminating MS (Marburg disease).
Sequence similarities	Belongs to the myelin basic protein family.
Developmental stage	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.
Post-translational modifications	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.
Cellular localization	Myelin membrane. Cytoplasmic side of myelin.

Images



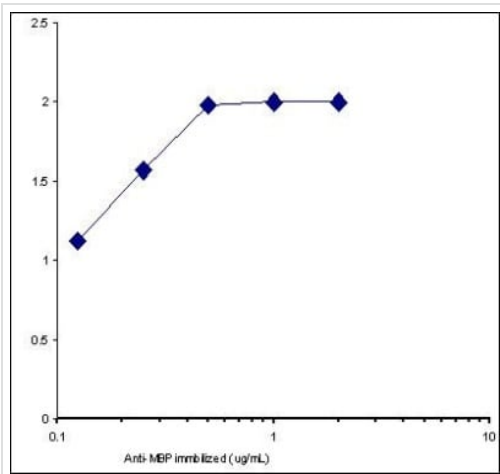
Sandwich ELISA detection of mouse Myelin Basic Protein in the plasma with un-optimized sensitivity 0.1 ng/mL.

Sandwich ELISA - HRP Anti-Myelin Basic Protein antibody (ab77895)



Fixed Immobilized Anti-MBP (**ab28541**): 2 ug/mL, 100 ul/well
 Captured Antigen: Swine MBP , range from 1 to 90 ng/mL
 Detection: anti-MBP HRP (ab77895), 0.25 ug/mL in 1% BSA and PBSt

Sandwich ELISA - HRP Anti-Myelin Basic Protein antibody (ab77895)



Immobilized Anti-MBP (**ab28541**): range from 0.125 to 2 µg/ml, 100 µl/well

Fixed Captured Antigen: Swine MBP, 500 ng/mL

Detection: anti-MBP HRP (ab77895), 0.25 ug/mL in 1% BSA and PBSt

Sandwich ELISA - HRP Anti-Myelin Basic Protein antibody (ab77895)

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