

DATASHEET

MBP Mouse Monoclonal Antibody(C3579)

CAT. NO. AMA03191

KEY FEATURES

Target	MBP	Source / Host	Mouse
Reactivity	Human	Clonality	Monoclonal
Applications	WB, IF/ICC	Conjugation	Unconjugated
Form / Buffer	Mouse IgM. Supplied in crude ascites with 0.01% sodium azide.	Storage	at-20°C

BACKGROUND

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.

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:1000 - 1:5000
IF/ICC	1:10 - 1:50

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Description	Mouse monoclonal antibody to MBP
Specificity	Recognizes endogenous levels of MBP protein.
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human MBP. The exact sequence is proprietary.
Molecular Weight	Predicted: 33 kD; Observed: 32 kD
Form/Buffer	Mouse IgM. Supplied in crude ascites with 0.01% sodium azide.
Alternative Names	Myelin basic protein; MBP; Myelin A1 protein; Myelin membrane encephalitogenic protein
Gene Symbol	MBP
Entrez Gene	4155(Human)
SwissProt	P02686(Human)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

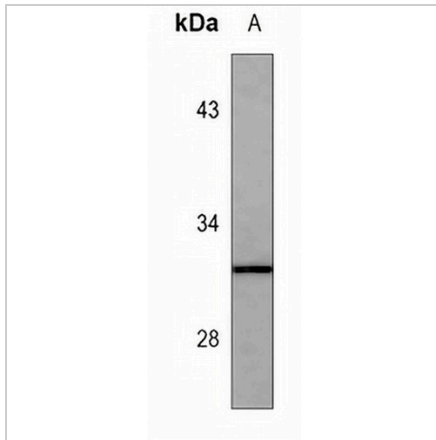
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

DATASHEET

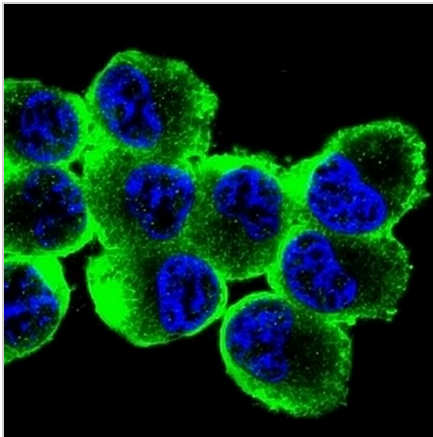
MBP Mouse Monoclonal Antibody(C3579)

CAT. NO. AMA03191

DATA



Western blot analysis of MBP expression in ZR751 (A) whole cell lysates. (Predicted band size: 33 kD; Observed band size: 32 kD)



Immunofluorescent analysis of MBP staining in NCIH460 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AREX® Fluor 488 -conjugated secondary antibody (green) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.