

Anti-Myelin Basic Protein (MBP) Antibody

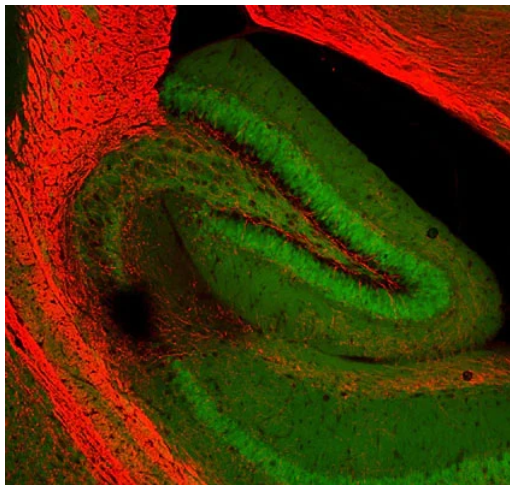


Product Details

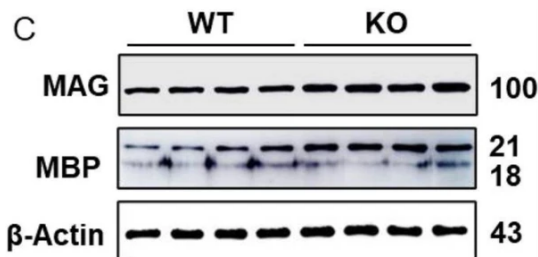
Available Variants	1000 µL (SKU:MBP) 100 µL (SKU:MBP-0020)
Isotype	IgY
Gene Name	MBP
Host Species	Chicken
Concentration	100 µg/mL
Format	Affinity-Purified IgY
Physical State	Liquid
Buffer	Phosphate-buffered (10 mM) isotonic (0.9%, w/v) saline ("PBS," pH 7.2) with sodium azide (0.02%, w/v) added as a preservative.
Production Notes	Chickens were immunized with a synthetic peptide / keyhole limpet hemocyanin (KLH) conjugate. The peptide corresponded to a region of the MBP gene product shared between the human (NP_002376, NCBI) and mouse (NP_034907, NCBI) sequences. After repeated injections, immune eggs were collected, the IgY fractions were purified from the yolks, and then affinity-purified using a peptide column. The concentrations of the eluates were then adjusted to 100 µg/mL, and the preparation was filter-sterilized.
Applications	ICC, IHC, WB
Dilution Ranges	WB: 1:1000-1:2000 IHC: 1:1000-1:2000 ICC: 1:1000-1:2000
Species Reactivity	Human, Mouse, Rabbit, Rat, Sheep
Immunogen	Synthetic peptide
Molecular Weight	Can recognize multiple bands between 14-22 kDa, corresponding to different MBP isoforms

Quality Control	Quality assurance analysis was performed using immunohistochemistry (at a dilution of 1:2000) using fluorescein-labeled goat anti-chicken IgY (1:500 dilution, Aves Labs Cat.# F-1005) as the secondary reagent.
Storage	Store at 4°C in the dark. Under these conditions, the antibodies should have a shelf life of at least twelve months, provided they remain sterile. For longer term storage, aliquot and freeze to avoid freeze-thaw of the antibody.
Antibody Registry ID	AB_2313550
UniProt ID	P02686
Country of Origin	United States
Shipping	Ice packs
Expiration	12 months from receipt of product
Usage Statement	These antibodies are to be used as research laboratory reagents and are not for use as diagnostic or therapeutic reagents in humans.

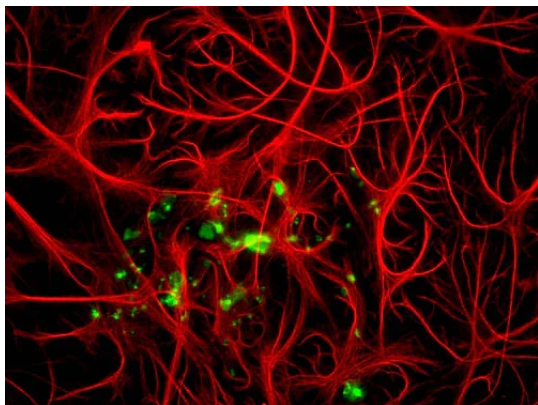
Product Images



Immunohistochemical staining of MBP (RED) in the hippocampal region of a transgenic adult mouse brain. This particular transgenic mouse expresses low levels of GFP autofluorescence under control of an actin promoter region. The anti-MBP antibody (Aves Labs) was used at a 1:1000 dilution. Dr. Felix Eckenstein, University of Vermont.



Immunoblot images of MAG and MBP (Cat. MBP, 1:2000) in the somatosensory cortex of wildtype and GluD1 KO. Significant increase in MAG (** $p < 0.0001$, unpaired t-test) and MBP (* $p < 0.0104$, unpaired t-test) was found in GluD1 KO mice compared to wildtype. Image from publication CC-BY-4.0. [PMID:37983226](#)



Adult mouse cortical cultures were stained with chicken anti-MBP antibody (Aves Labs, green, 1:1000 dilution) and rabbit anti-GFAP antibody (EnCorBio, red; 1:1000 dilution). Photomicrograph courtesy of Dr. Gerry Shaw, Univ. Florida.

Product Page URL: www.antibodiesinc.com/products/anti-myelin-basic-protein-antibody-mbp



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