

Product datasheet

Anti-MAG antibody ab89780

★★★★★ 18 Abreviews 16 References 7 Images

Overview

Product name	Anti-MAG antibody
Description	Mouse monoclonal to MAG
Host species	Mouse
Tested applications	Suitable for: ICC/IF, Flow Cyt, IHC-P, WB, ELISA
Species reactivity	Reacts with: Mouse, Rat, Sheep, Cow, Cat, Human, Monkey Predicted to work with: Orangutan 
Immunogen	Recombinant fragment: GDLGGYNQYT FSEHSVLDIV NTPNMVPPE VVAGTEVEVS CMVPDNCPEL RPELSWLGHE GLGEPAVLGR LREDEGTWVQ VSLLHFVPTR, corresponding to amino acids 119-208 of Human MAG (NP_002352) with a proprietary tag. Run BLAST with ExPASy Run BLAST with NCBI
Positive control	Partial tagged recombinant Human MAG protein (Immunogen), Jurkat cell lysate. This antibody gave a positive result in IF in the following Formaldehyde fixed cell line: SKNSH.
General notes	Abcam is committed to meeting high standards of ethical manufacturing and has decided to discontinue this product by June 2019 as it has been generated by the ascites method. We are sorry for any inconvenience this may cause. We would recommend antibody ab46803 as a replacement.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: None Constituents: 1X PBS, pH 7.2
Purity	Protein A purified
Clonality	Monoclonal
Isotype	IgG1
Light chain type	kappa

Applications

Our [Abpromise guarantee](#) covers the use of **ab89780** in the following tested applications.

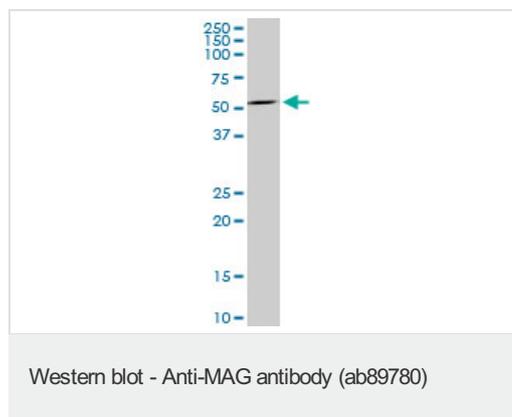
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF	★★★★★	1/400.
Flow Cyt		Use 1µg for 10 ⁶ cells. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
IHC-P	★★★★★	1/2000 - 1/4000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB	★★★★★	Use a concentration of 1 - 5 µg/ml. Predicted molecular weight: 63 kDa. Isoform a, 69 kDa; Isoform b, 63 kDa.
ELISA	★★★★★	Use at an assay dependent concentration.

Target

Function	Adhesion molecule in postnatal neural development that mediates sialic-acid dependent cell-cell interactions between neuronal and myelinating cells. Preferentially binds to alpha-2,3-linked sialic acid.
Sequence similarities	Belongs to the immunoglobulin superfamily. SIGLEC (sialic acid binding Ig-like lectin) family. Contains 4 Ig-like C2-type (immunoglobulin-like) domains. Contains 1 Ig-like V-type (immunoglobulin-like) domain.
Cellular localization	Membrane.

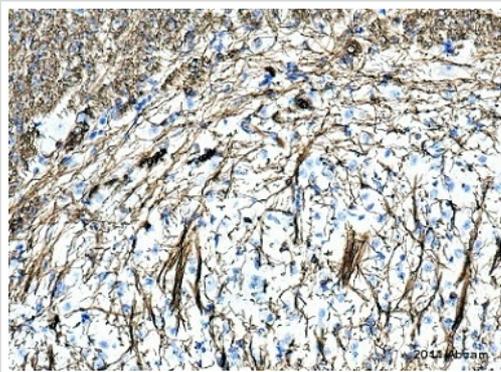
Images



Anti-MAG antibody (ab89780) at 5 µg/ml +
Jurkat cell lysate at 50 µg

Predicted band size: 63 kDa

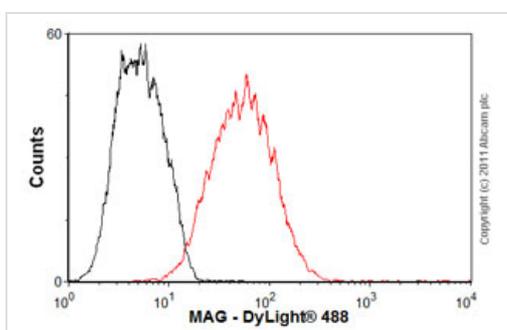
Observed band size: 53 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MAG antibody (ab89780)

This image is courtesy of an Abreview submitted by Carl Hobbs

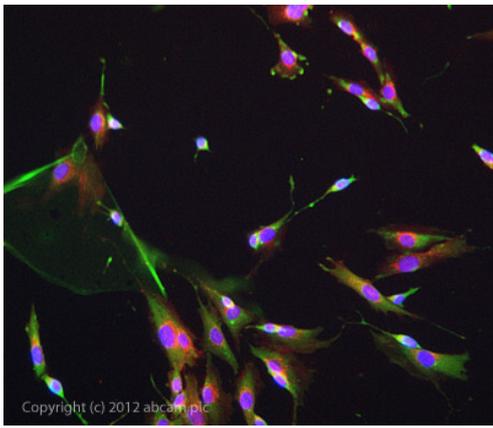
ab89780 staining MAG in lamb spinal cord tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 1% BSA for 10 minutes at 21°C; antigen retrieval was by heat mediation in a citrate buffer. Samples were incubated with primary antibody (1/5000 in blocking buffer) for 2 hours at 21°C. A Biotin-conjugated Goat anti-mouse IgG polyclonal (1/200) was used as the secondary antibody.



Flow Cytometry - Anti-MAG antibody (ab89780)

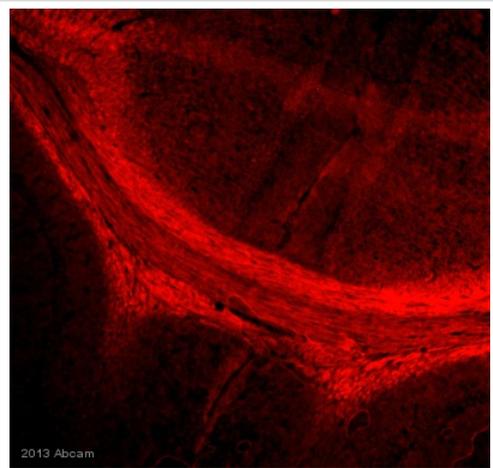
Overlay histogram showing SH-SY5Y cells stained with ab89780 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab89780, 1µg/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (ab96879) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (ab91353, 2µg/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in SH-SY5Y cells fixed with 80% methanol (5 min) used under the same conditions.

Please note that Abcam do not have any data for use of this antibody on non-fixed cells. We welcome any customer feedback.



Immunocytochemistry/ Immunofluorescence - Anti-MAG antibody (ab89780)

ab89780 stained SKNSH cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody ab89780 at 10µg/ml overnight at +4°C. The secondary antibody (green) was DyLight® 488 goat anti- mouse (ab96879) IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.



Immunohistochemistry (PFA perfusion fixed frozen sections) - Anti-MAG antibody (ab89780)

This image is courtesy of an anonymous Abreview

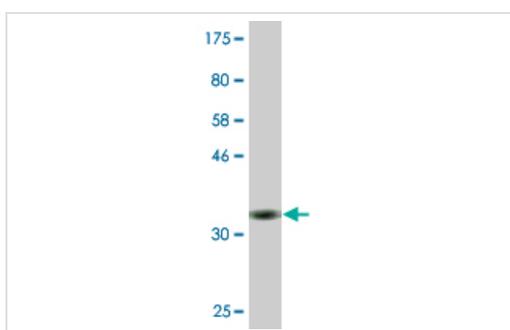
ab89780 staining MAG in Mouse brain tissue sections by Immunohistochemistry (PFA perfusion fixed frozen sections). Tissue samples were fixed by perfusion with acetone, permeablized with methanol and blocked with 5% BSA for 1 hour at 37°C. The sample was incubated with primary antibody (1/100) at 4°C for 18 hours. An Alexa Fluor® 594-conjugated Goat anti-mouse polyclonal (1/200) was used as the secondary antibody.



IHC-P image of MAG staining on cow peripheral nerve sections using ab89780 (1:4000). The sections were fixed in Formaldehyde and subjected to heat mediated antigen retrieval using citric acid (pH 6). The sections were blocked using 1% BSA for 10 mins at 21°C.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MAG antibody (ab89780)

This image was taken from an abreview submitted by Carl Hobbs, King's College London.



Anti-MAG antibody (ab89780) at 5 µg/ml + Partial tagged recombinant Human MAG protein at 0.2 µg

Predicted band size: 63 kDa

Observed band size: 36 kDa

Western blot - Anti-MAG antibody (ab89780)

Western blot against tagged recombinant protein immunogen. Predicted band size of immunogen is 36 kDa.

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