




Product datasheet

Anti-MAG/GMA antibody [3C7] - BSA and Azide free ab89780

★★★★★ [19 Abreviews](#) [54 References](#) [4 Images](#)

Overview

Product name	Anti-MAG/GMA antibody [3C7] - BSA and Azide free
Description	Mouse monoclonal [3C7] to MAG/GMA - BSA and Azide free
Host species	Mouse
Tested applications	Suitable for: ICC, Flow Cyt, WB
Species reactivity	Reacts with: Human, Recombinant fragment Predicted to work with: Orangutan 
Immunogen	Recombinant fragment corresponding to Human MAG/GMA aa 100-250. Database link: P20916 <div>  Run BLAST with  Run BLAST with </div>
Positive control	Partial tagged recombinant Human MAG/GMA protein (Immunogen), Jurkat whole cell lysate (ab7899). This antibody gave a positive result in IF in the following Formaldehyde fixed cell line: SKNSH.
General notes	<p>This product was changed from ascites to tissue culture supernatant on 4th April 2019. Please note that the dilutions may need to be adjusted accordingly. If you have any questions, please do not hesitate to contact our scientific support team.</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. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.40 Constituent: PBS

Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	3C7
Isotype	IgG1
Light chain type	kappa

Applications

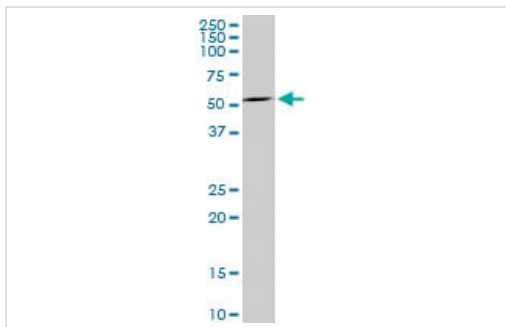
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab89780 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC		Use at an assay dependent concentration.
Flow Cyt		Use at an assay dependent concentration. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
WB	★★★★★ (6)	Use at an assay dependent concentration. Predicted molecular weight: 63 kDa. Isoform a, 69 kDa; Isoform b, 63 kDa.

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



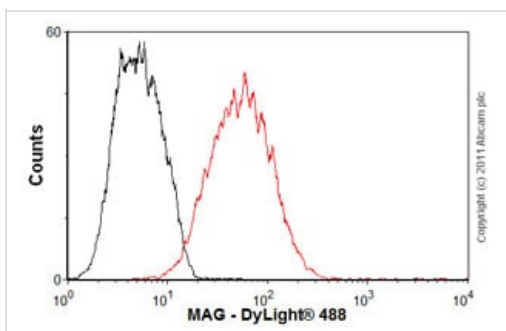
Western blot - Anti-MAG/GMA antibody [3C7] - BSA and Azide free (ab89780)

Anti-MAG/GMA antibody [3C7] - BSA and Azide free (ab89780) at 5 µg/ml + Jurkat cell lysate at 50 µg

Predicted band size: 63 kDa

Observed band size: 53 kDa

This image was generated using the ascites version of the product.



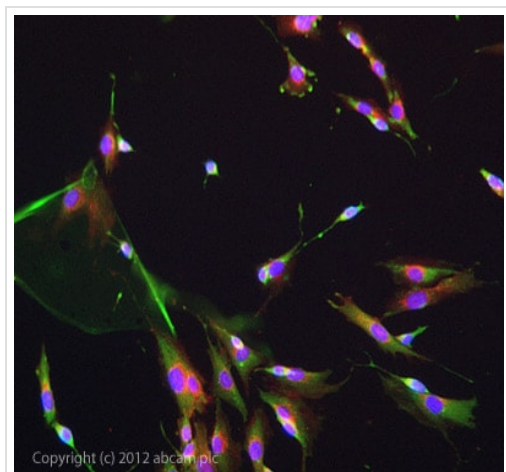
Flow Cytometry - Anti-MAG/GMA antibody [3C7] - BSA and Azide free (ab89780)

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, 1 µg/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](#), 2 µg/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.

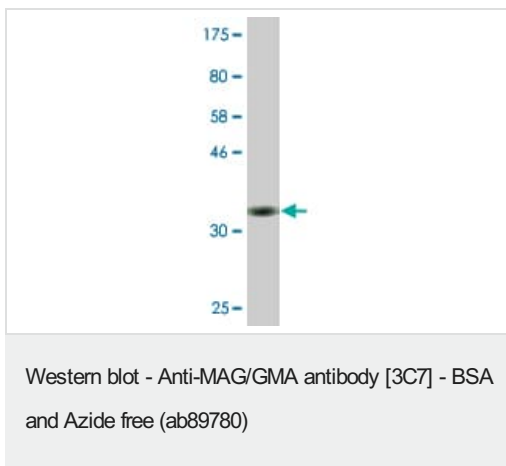
This image was generated using the ascites version of the product.



Immunocytochemistry - Anti-MAG/GMA antibody [3C7] - BSA and Azide free (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 10 µg/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 1.43 µM.

This image was generated using the ascites version of the product.



Anti-MAG/GMA antibody [3C7] - BSA and Azide free (ab89780) at 5 µg/ml + Partial tagged recombinant Human MAG/GMA protein at 0.2 µg

Predicted band size: 63 kDa

Observed band size: 36 kDa

Western blot against tagged recombinant protein immunogen.

Predicted band size of immunogen is 36 kDa.

This image was generated using the ascites version of the product.

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