





Product datasheet

Anti-MGAT5 antibody [3E9] ab87977

★★★★★ [5 Abreviews](#) [4 References](#) [4 Images](#)

Overview

Product name	Anti-MGAT5 antibody [3E9]
Description	Mouse monoclonal [3E9] to MGAT5
Host species	Mouse
Tested applications	Suitable for: WB, Flow Cyt
Species reactivity	Reacts with: Human, Recombinant fragment Predicted to work with: Mouse, Rat, Hamster 
Immunogen	Recombinant fragment: LAEPGQSKQ VCQESQLICE PSFFQHLNKD KDMLKYKVTG QSSELAKDIL VPSFDPKNK HCVFQGDL L FSCAGAHPRH QRVCP CRDFI KGQVALCKD, corresponding to amino acids 642 - 739 of Human MGAT5 (NP_002401) with a proprietary tag  Run BLAST with  Run BLAST with 
Positive control	Jurkat whole cell lysate (ab7899)
General notes	<p>This product was changed from ascites to tissue culture supernatant on 15 May 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: 100% PBS
Purity	Tissue culture supernatant
Purification notes	Purified from TCS.

Clonality	Monoclonal
Clone number	3E9
Isotype	IgG2a
Light chain type	kappa

Applications

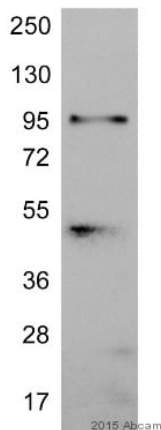
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab87977 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (2)	Use at an assay dependent concentration. Predicted molecular weight: 85 kDa.
Flow Cyt		Use at an assay dependent concentration. ab170191 - Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody.

Target

Function	Catalyzes the addition of N-acetylglucosamine in beta 1-6 linkage to the alpha-linked mannose of biantennary N-linked oligosaccharides. It is one of the most important enzymes involved in the regulation of the biosynthesis of glycoprotein oligosaccharides.
Pathway	Protein modification; protein glycosylation.
Sequence similarities	Belongs to the glycosyltransferase 18 family.
Cellular localization	Golgi apparatus membrane.

Images



Western blot - Anti-MGAT5 antibody [3E9]
(ab87977)

Image is courtesy of an AbReview submitted by Armen Petrosyan.

Anti-MGAT5 antibody [3E9] (ab87977) at 1/2000 dilution + Human RWPE prostate cells at 20 µg

Secondary

Donkey anti-mouse polyclonal HRP conjugate at 1/10000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

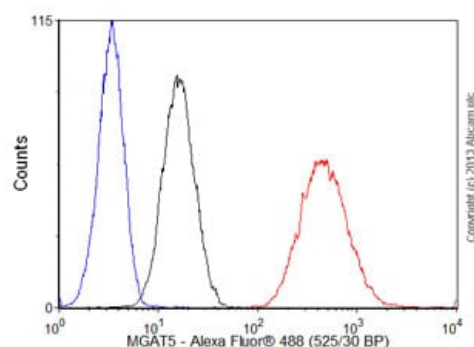
Predicted band size: 85 kDa

Additional bands at: 55 kDa (possible non-specific binding), 95 kDa (possible post-translational modification)

Exposure time: 40 seconds

Blocking was via 5% milk in PBST incubated for 1 hour at 22°C

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



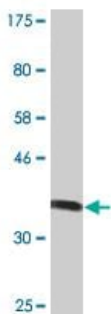
Flow Cytometry - Anti-MGAT5 antibody [3E9]
(ab87977)

Overlay histogram showing Jurkat cells stained with ab87977 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab87977, 1 µg/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was Alexa Fluor® 488 goat anti-mouse IgG (H&L) (**ab150113**) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG2a [ICIGG2A] (**ab91361**, 1 µg/1x10⁶ cells) used under the same conditions.

Unlabelled sample (blue line) was also used as a control.

Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter. This antibody gave a positive signal in Jurkat cells fixed with 80% methanol (5 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.

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



Western blot - Anti-MGAT5 antibody [3E9]
(ab87977)

Anti-MGAT5 antibody [3E9] (ab87977) at 1 µg/ml + recombinant protein fragment with a proprietary tag (the immunogen) at 0.1 µg

Secondary

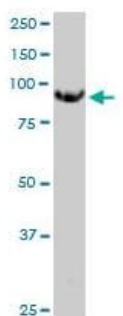
Goat Anti-Mouse IgG (H&L)-HRP Conjugate at 1/5000 dilution

Predicted band size: 85 kDa

Observed band size: 37 kDa

The recombinant protein used as the immunogen has a predicted size of 37 kDa.

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



Western blot - Anti-MGAT5 antibody [3E9]
(ab87977)

Anti-MGAT5 antibody [3E9] (ab87977) at 1 µg/ml + jurkat cell lysate at 25 µg

Secondary

Goat Anti-Mouse IgG (H&L)-HRP Conjugate at 1/2500 dilution

Predicted band size: 85 kDa

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

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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