

## Product datasheet

# Anti-DGAT1 antibody ab59034

★★★★☆ 1 Abreviews 4 References 4 Images

### Overview

<b>Product name</b>	Anti-DGAT1 antibody
<b>Description</b>	Goat polyclonal to DGAT1
<b>Host species</b>	Goat
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, WB
<b>Species reactivity</b>	<p><b>Reacts with:</b> Human</p> <p><b>Predicted to work with:</b> Mouse, Rat, Goat, Cow, Dog, Pig, African green monkey </p>
<b>Immunogen</b>	<p>Synthetic peptide:</p> <p>C-QNSMKPFKMDYS</p> <p>, corresponding to internal sequence amino acids 305-317 of Human DGAT1</p> <p style="text-align: right;"> <a href="#">Run BLAST with</a>      <a href="#">Run BLAST with</a> </p>
<b>Positive control</b>	WB: Human Duodenum lysate. Mouse liver lysate in RIPA buffer IHC: Human colon IF: A431 cells
<b>General notes</b>	<p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications &amp; species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.</p> <p>In preparation for this, we have started to update the applications &amp; species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications &amp; species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.</p> <p>Applications &amp; species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.</p> <p>Please check that this product meets your needs before purchasing. 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, as well as customer reviews and Q&amp;As.</p>

## Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 0.5% Tris buffered saline, 0.5% BSA
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

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Our [Abpromise guarantee](#) covers the use of **ab59034** 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
IHC-P		
IF		
WB		

<b>Application notes</b>	Peptide ELISA: antibody detection limit dilution 1:16,000.  WB: Use at a concentration of 0.5 - 1 µg/ml. Detects a band of approximately 50 kDa (predicted molecular weight: 55 kDa).  Not yet tested in other applications. Optimal dilutions/concentrations should be determined by the end user.
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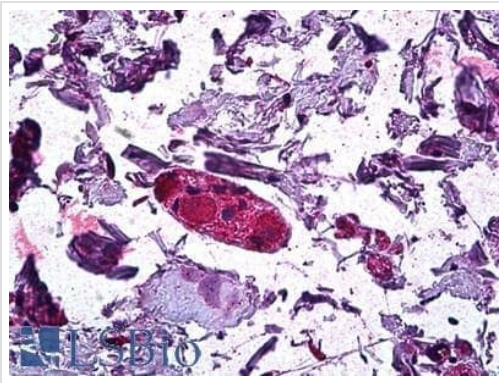
## Target

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<b>Function</b>	Catalyzes the terminal and only committed step in triacylglycerol synthesis by using diacylglycerol and fatty acyl CoA as substrates. In contrast to DGAT2 it is not essential for survival. May be involved in VLDL (very low density lipoprotein) assembly.
<b>Pathway</b>	Lipid metabolism; glycerolipid metabolism.
<b>Sequence similarities</b>	Belongs to the membrane-bound acyltransferase family. Sterol o-acyltransferase subfamily.
<b>Cellular localization</b>	Endoplasmic reticulum membrane.

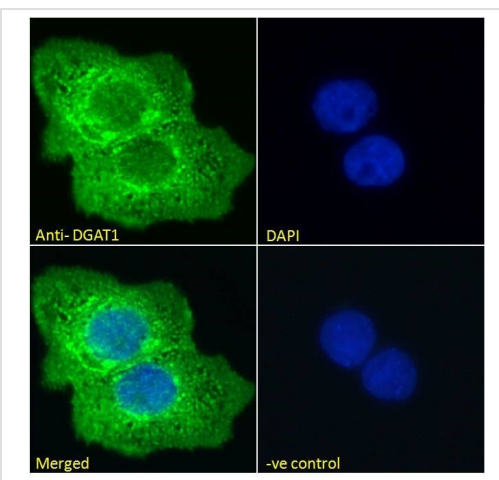
## Images

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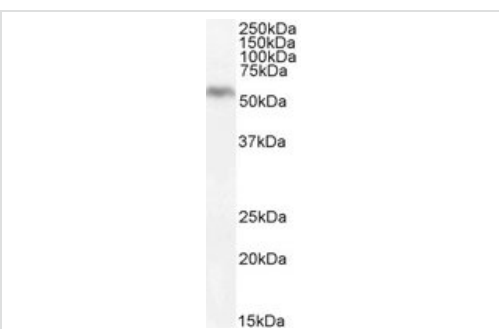
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DGAT1 antibody (ab59034)

Immunohistochemistry (paraffin-embedded sections) analysis of Human Colon tissue labelling DGAT1 with ab59034 at 3.75 µg/mL or dilution. Steamed antigen retrieval was performed with citrate buffer pH 6, AP-staining.



Immunofluorescence - Anti-DGAT1 antibody (ab59034)

immunofluorescence analysis of A431 cells labelling DGAT1 with ab59034 at 10 µg/mL or dilution]. Cells were permeabilized with 0.15% Triton X-100. Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) at 2 µg/mL was used as the secondary antibody (green). Nuclear DNA was labelled with DAPI (blue). Negative control: Unimmunized goat IgG 10 µg/mL. Strong expression of the protein seen in the endoplasmic reticulum and cytoplasm is seen.



Western blot - Anti-DGAT1 antibody (ab59034)

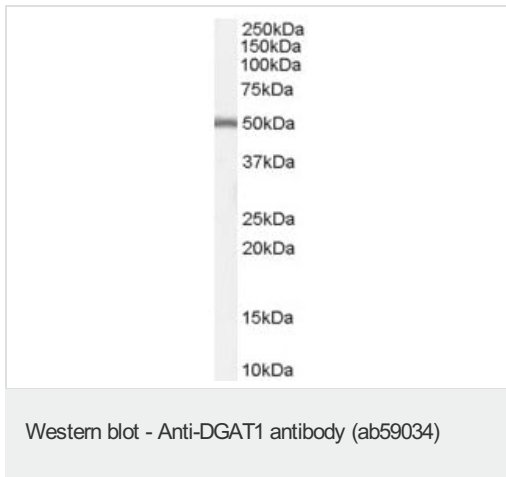
Anti-DGAT1 antibody (ab59034) at 0.03 µg/ml + Mouse liver lysate in RIPA buffer at 35 µg

Developed using the ECL technique.

**Predicted band size:** 55 kDa

**Observed band size:** 55 kDa

Primary incubation: 1 hour at room temperature.



Anti-DGAT1 antibody (ab59034) at 0.5 µg/ml + Human Duodenum lysate (35µg protein in RIPA buffer)

**Predicted band size:** 55 kDa

**Observed band size:** 50 kDa

[why is the actual band size different from the predicted?](#)

Primary incubation was 1 hour. Detected by chemiluminescence.

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

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