




## Product datasheet

### Anti-DGAT1 antibody ab59034

★★★★★ [2 Abreviews](#) [5 References](#) [3 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, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human <b>Predicted to work with:</b> Rat, Goat, Cow, Dog, Pig, African green monkey 
<b>Immunogen</b>	Synthetic peptide: C-QNSMKPFKDMYDYS , corresponding to internal sequence amino acids 305-317 of Human DGAT1  <a href="#">Run BLAST with</a>  <a href="#">Run BLAST with</a>
<b>Positive control</b>	WB: Human duodenum and mouse liver tissue lysates. ICC/IF: A431 cells.
<b>General notes</b>	<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&amp;As</p>

#### Properties

<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.

Clonality	Polyclonal
Isotype	IgG

## Applications

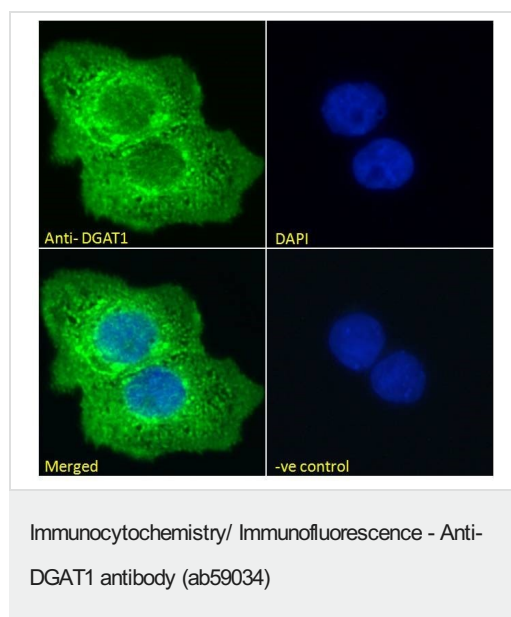
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab59034 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use a concentration of 3.75 µg/ml.
WB	★★★★★ (2)	Use a concentration of 0.01 - 1 µg/ml. Detects a band of approximately 55 kDa (predicted molecular weight: 55 kDa). A 1 hour primary incubation is recommended for this product.
ICC/IF		Use a concentration of 10 µg/ml.

## Target

Function	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.
Pathway	Lipid metabolism; glycerolipid metabolism.
Sequence similarities	Belongs to the membrane-bound acyltransferase family. Sterol o-acyltransferase subfamily.
Cellular localization	Endoplasmic reticulum membrane.

## Images



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.



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

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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