

**Product Name: DGAT1 (12C4) Rabbit Monoclonal Antibody**  
**Catalog #: AMRe09936**

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## Summary

<b>Production Name</b>	DGAT1 (12C4) Rabbit Monoclonal Antibody
<b>Description</b>	Rabbit Monoclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB
<b>Reactivity</b>	Human

## Performance

<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Monoclonal
<b>Form</b>	Liquid
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
<b>Buffer</b>	Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% New type preservative N and 0.05% BSA.
<b>Purification</b>	Affinity purification

## Immunogen

<b>Gene Name</b>	DGAT1 {ECO:0000303 PubMed:16214399, ECO:0000312 HGNC:HGNC:2843}
<b>Alternative Names</b>	ARAT; ARGP1; C75990; Dgat; DGAT1; DIAR7; Diglyceride acyltransferase;
<b>Gene ID</b>	8694.0
<b>SwissProt ID</b>	O75907.Recombinant protein of human DGAT1

## Application

<b>Dilution Ratio</b>	WB: 1:2000-1:10000
<b>Molecular Weight</b>	55kDa

## Background

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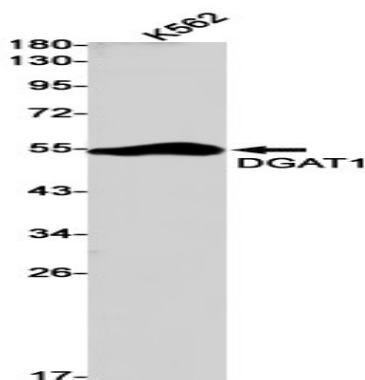
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Catalyzes the terminal and only committed step in triacylglycerol synthesis by using diacylglycerol and fatty acyl CoA as substrates. In contrast to DGAT2 it is not essential for survival. May be involved in VLDL (very low density lipoprotein) assembly. Catalyzes the terminal and only committed step in triacylglycerol synthesis by using diacylglycerol and fatty acyl CoA as substrates (PubMed: [16214399](http://www.uniprot.org/citations/16214399)), PubMed: [18768481](http://www.uniprot.org/citations/18768481), PubMed: [28420705](http://www.uniprot.org/citations/28420705), PubMed: [9756920](http://www.uniprot.org/citations/9756920), PubMed: [32433611](http://www.uniprot.org/citations/32433611), PubMed: [32433610](http://www.uniprot.org/citations/32433610)). Highly expressed in epithelial cells of the small intestine and its activity is essential for the absorption of dietary fats (PubMed: [18768481](http://www.uniprot.org/citations/18768481)). In liver, plays a role in esterifying exogenous fatty acids to glycerol, and is required to synthesize fat for storage (PubMed: [16214399](http://www.uniprot.org/citations/16214399)). Also present in female mammary glands, where it produces fat in the milk (By similarity). May be involved in VLDL (very low density lipoprotein) assembly (PubMed: [18768481](http://www.uniprot.org/citations/18768481)). In contrast to DGAT2 it is not essential for survival (By similarity). Functions as the major acyl-CoA retinol acyltransferase (ARAT) in the skin, where it acts to maintain retinoid homeostasis and prevent retinoid toxicity leading to skin and hair disorders (PubMed: [16214399](http://www.uniprot.org/citations/16214399)). Exhibits additional acyltransferase activities, including acyl CoA:monoacylglycerol acyltransferase (MGAT), wax monoester and wax diester synthases (By similarity). Also able to use 1-monoalkylglycerol (1-MAKG) as an acyl acceptor for the synthesis of monoalkyl-monoacylglycerol (MAMAG) (PubMed: [28420705](http://www.uniprot.org/citations/28420705)).

## Research Area

## Image Data





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Western blot detection of DGAT1 in K562 cell lysates using DGAT1 antibody(1:1000 diluted).

**Note**

For research use only.