MOGAT2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MOGAT2, Polyclonal Antibody
Full Product Name	MOGAT2 Antibody; Biotin conjugated
Product Gene Name	anti-MOGAT2 antibody
Product Synonym Names	2-acylglycerol O-acyltransferase 2; Acyl-CoA:monoacylglycerol acyltransferase 2; MGAT2; hMGAT2; Diacylglycerol O-acyltransferase candidate 5; hDC5; Diacylglycerol acyltransferase 2-like protein 5; Monoacylglycerol O-acyltransferase 2; MOGAT2; DC5; DGAT2L5
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%,Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery, aliquot and store at -20 degree C or -80 degree C.
Matching Pairs	Unconjugated Antibody: MOGAT2 (MBS7000329) Biotin Conjugated Antibody: MOGAT2 (MBS7003413)
Molecular Weight	32,298 Da
OMIM	610270
3D Structure	ModBase 3D Structure for Q3SYC2
Immunogen	Recombinant human 2-acylglycerol O-acyltransferase 2 protein
Conjugation	Biotin
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-32391 / sc-32392 / sc-130817 / sc-66963
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-MOGAT2 antibody	ELISA (EIA)
Related Product Information for anti-MOGAT2 antibody	Catalyzes the formation of diacylglycerol from 2-monoacylglycerol and fatty acyl-CoA. Has a preference toward monoacylglycerols containing unsaturated fatty acids in an order of C18:3 > C18:2 > C18:1 > C18:0. Plays a central role in absorption of dietary fat in the small intestine by catalyzing the resynthesis of triacylglycerol in enterocytes. May play a role in diet-induced obesity.
Other Notes	Small volumes of anti-MOGAT2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for MOGAT2 purchase	MBS7003413 is an antibody targeting MOGAT2. Also known as MOGAT2 Antibody; Biotin conjugated. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MOGAT2. It may not necessarily be applicable to this product.

NCBI GI #	37537527
NCBI GeneID	80168
NCBI Accession #	NP_079374.2
UniProt Primary Accession #	Q3SYC2
UniProt Secondary Accession #	Q3SYC1; Q6ZQZ2; Q86UH6; Q9H630; A8K7I3
UniProt Related Accession #	Q3SYC2
GenBank Nucleotide #	NM_025098.3
NCBI Official Full Name	2-acylglycerol O-acyltransferase 2
NCBI Official Synonym Full Names	monoacylglycerol O-acyltransferase 2
NCBI Official Symbol	MOGAT2
NCBI Official Synonym Symbols	hDC5; MGAT2; DGAT2L5; DGAT2L5.
UniProt Protein Name	2-acylglycerol O-acyltransferase 2
UniProt Synonym Protein Names	Acyl-CoA:monoacylglycerol acyltransferase 2; MGAT2; hMGAT2; Diacylglycerol O-acyltransferase candidate 5; hDC5; Diacylglycerol acyltransferase 2-like protein 5; Monoacylglycerol O-acyltransferase 2
Protein Family	2-acylglycerol O-acyltransferase
UniProt Gene Name	MOGAT2
UniProt Synonym Gene Names	DC5; DGAT2L5; MGAT2; hMGAT2; hDC5
UniProt Entry Name	MOGT2_HUMAN
NCBI Protein Information	2-acylglycerol O-acyltransferase 2
NCBI Summary for MOGAT2	The protein encoded by this gene is an enzyme that catalyzes the synthesis of diacylglycerol from 2-monoacylglycerol and fatty acyl-CoA. The encoded protein is important in the uptake of dietary fat by the small intestine. This protein forms a complex with diacylglycerol O-acyltransferase 2 in the endoplasmic reticulum, and this complex catalyzes the synthesis of triacylglycerol. [provided by RefSeq, Dec 2015]
UniProt Comments for MOGAT2	MOGAT2: Catalyzes the formation of diacylglycerol from 2- monoacylglycerol and fatty acyl-CoA. Has a preference toward monoacylglycerols containing unsaturated fatty acids in an order of C18:3 > C18:2 > C18:1 > C18:0. Plays a central role in absorption of dietary fat in the small intestine by catalyzing the resynthesis of triacylglycerol in enterocytes. May play a role in diet-induced obesity. Belongs to the diacylglycerol acyltransferase family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: EC 2.3.1.22; Acetyltransferase; Membrane protein, multi-pass; Membrane protein, integral Chromosomal Location of Human Ortholog: 11q13.5 Cellular Component: endoplasmic reticulum; endoplasmic reticulum membrane; integral to membrane Molecular Function: 2-acylglycerol O-acyltransferase activity; acetyltransferase activity Biological Process: diacylglycerol biosynthetic process; glycerol metabolic process; intestinal absorption; triacylglycerol biosynthetic process
Research Articles on MOGAT2	**1.** MGAT2 in the intestine plays an indispensable role in enhancing metabolic efficiency but also raise the possibility that MGAT2 in other tissues may contribute to the regulation of energy metabolism.
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