MOGT3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MOGT3, Polyclonal Antibody
Full Product Name	MOGT3, CT (MOGAT3, DC7, DGAT2L7, 2-acylglycerol O-acyltransferase 3, Acyl-CoA:monoacylglycerol acyltransferase 3, Diacylglycerol O-acyltransferase candidate 7, Diacylglycerol acyltransferase 2-like protein 7, Monoacylglycerol O-acyltransferase 3) (MaxLigh
Product Gene Name	anti-MOGT3 antibody
Product Synonym Gene Name	MOGAT3
Product Synonym Names	MOGAT3; DC7; DGAT2L7; 2-acylglycerol O-acyltransferase 3; Acyl-CoA:monoacylglycerol acyltransferase 3; Diacylglycerol O-acyltransferase candidate 7; Diacylglycerol acyltransferase 2-like protein 7; Monoacylglycerol O-acyltransferase 3
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	38730
OMIM	AY229854 mRNA
3D Structure	ModBase 3D Structure for Q86VF5
Immunogen	MOGT3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 302-338 amino acids from the C-terminal region of human MOGT3.
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-MOGT3 antibody	Antibodies; Enzymes; Acyltransferase
Applications Tested/Suitable for anti-MOGT3 antibody	Flow Cytometry (FC/FACS), FLISA, Western Blot (WB)
Application Notes for anti-MOGT3 antibody	FC/FACS: 1:10-50 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-MOGT3 antibody	MaxLight405 is a new Violet photostable dye conjugate comparable to Alexa Fluor 405, PacificBlue, Brilliant Violet 421 and offers better labeling efficiency, brighter imaging and increased immunodetection. Absorbance (400nm); Emission (423nm); Extinction Coefficient 32,000.

Product References and Citations for anti-MOGT3 antibody	Clark, H.F., et al. Genome Res. 13(10):2265-2270(2003). Cheng, D., et al. J. Biol. Chem. 278(16):13611-13614(2003). Winter, A., et al. Cytogenet. Genome Res. 102 (1-4), 42-47 (2003).
Other Notes	Small volumes of anti-MOGT3 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 MOGT3 purchase	MBS6321663 is an antibody targeting MOGT3. Also known as MOGT3, CT (MOGAT3, DC7, DGAT2L7, 2-acylglycerol O-acyltransferase 3, Acyl-CoA:monoacylglycerol acyltransferase 3, Diacylglycerol O-acyltransferase candidate 7, Diacylglycerol acyltransferase 2-like protein 7, Monoacylglycerol O-acyltransferase 3) (MaxLigh. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MOGT3. It may not necessarily be applicable to this product.

NCBI GI #	30039700
NCBI GeneID	346606
NCBI Accession #	NP_835470.1
UniProt Primary Accession #	Q86VF5
UniProt Secondary Accession #	Q496A6; Q496A7; Q496A8; Q9UDW7
UniProt Related Accession #	Q86VF5
GenBank Nucleotide #	NM_178176.3
NCBI Official Full Name	2-acylglycerol O-acyltransferase 3 isoform a
NCBI Official Synonym Full Names	monoacylglycerol O-acyltransferase 3
NCBI Official Symbol	MOGAT3
NCBI Official Synonym Symbols	DC7; MGAT3; DGAT2L7
UniProt Protein Name	2-acylglycerol O-acyltransferase 3
UniProt Synonym Protein Names	Acyl-CoA:monoacylglycerol acyltransferase 3; MGAT3; Diacylglycerol O-acyltransferase candidate 7; hDC7; Diacylglycerol acyltransferase 2-like protein 7; Monoacylglycerol O-acyltransferase 3
UniProt Gene Name	MOGAT3
UniProt Synonym Gene Names	DC7; DGAT2L7; MGAT3; hDC7
NCBI Protein Information	2-acylglycerol O-acyltransferase 3
NCBI Summary for MOGT3	Acyl-CoA:monoacylglycerol acyltransferase (MOGAT; EC 2.3.1.22) catalyzes the synthesis of diacylglycerol from 2-monoacylglycerol and fatty acyl-CoA (Cheng et al., 2003 [PubMed 12618427]).[supplied by OMIM, Mar 2008]
UniProt Comments for MOGT3	Catalyzes the formation of diacylglycerol from 2-monoacylglycerol and fatty acyl-CoA. Also able to catalyze the terminal step in triacylglycerol synthesis by using diacylglycerol and fatty acyl-CoA as substrates. Has a preference toward palmitoyl-CoA and oleoyl-CoA. May be involved in absorption of dietary fat in the small intestine by catalyzing the resynthesis of triacylglycerol in enterocytes.
Research Articles on MOGT3	**1.** MGAT3 encodes a approximately 36-kDa transmembrane protein that is highly homologous to MGAT1 and -2 and is expressed in the human gastrointestinal tract with the highest level found in the ileum
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