

**MOGT1 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP11317b**

**Specification**

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**MOGT1 Antibody (C-term) - Product Information**

Application	WB, IHC-P, FC,E
Primary Accession	<a href="#">Q96PD6</a>
Other Accession	<a href="#">NP_477513.2</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	38812
Antigen Region	303-335

**MOGT1 Antibody (C-term) - Additional Information**

**Gene ID** 116255

**Other Names**

2-acylglycerol O-acyltransferase 1, Acyl-CoA:monoacylglycerol acyltransferase 1, MGAT1, Diacylglycerol O-acyltransferase candidate 2, hDC2, Diacylglycerol acyltransferase 2-like protein 1, Monoacylglycerol O-acyltransferase 1, MOGAT1, DC2, DGAT2L1

**Target/Specificity**

This MOGT1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 303-335 amino acids from the C-terminal region of human MOGT1.

**Dilution**

WB~~1:1000  
IHC-P~~1:50~100  
FC~~1:10~50

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

MOGT1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**MOGT1 Antibody (C-term) - Protein Information**

**Name** MOGAT1 ([HGNC:18210](#))

**Synonyms** DC2, DGAT2L1

**Function** Involved in glycerolipid synthesis and lipid metabolism. Catalyzes the formation of diacylglycerol, the precursor of triacylglycerol, by transferring the acyl chain of a fatty acyl-CoA to a monoacylglycerol, mainly at the sn-1 or sn-3 positions. It uses both sn-2-monoacylglycerol (2-acylglycerol) and sn-1-monoacylglycerol (1- acyl-sn-glycerol) equally well as substrates, and uses sn-3- monoacylglycerol (3-acyl-sn-glycerol) with lower efficiency. Probably not involved in absorption of dietary fat in the small intestine.

**Cellular Location**

Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q91ZV4}; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q91ZV4}

**Tissue Location**

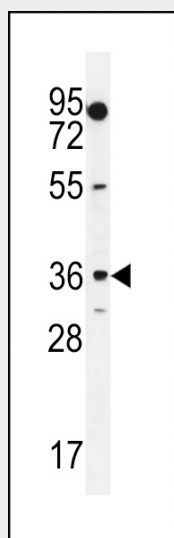
Expressed in stomach and liver.

**MOGT1 Antibody (C-term) - Protocols**

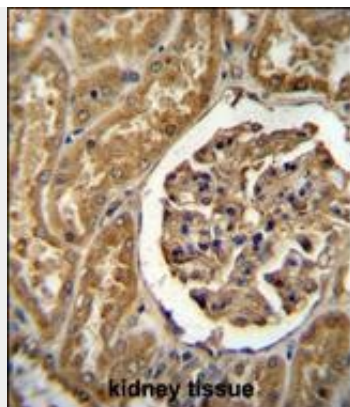
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

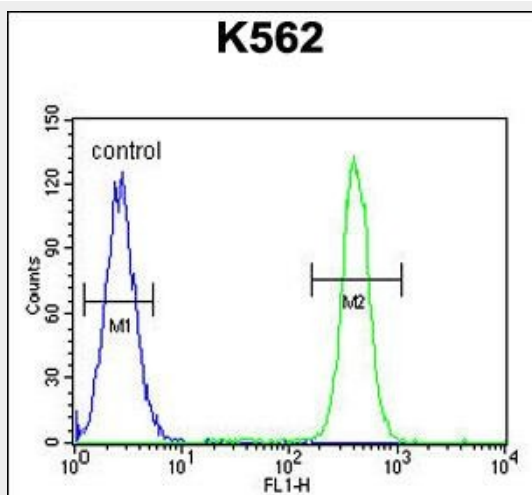
**MOGT1 Antibody (C-term) - Images**



MOGT1 Antibody (C-term) (Cat. #AP11317b) western blot analysis in K562 cell line lysates (35ug/lane). This demonstrates the MOGT1 antibody detected the MOGT1 protein (arrow).



MOGT1 Antibody (C-term) (Cat. #AP11317b) immunohistochemistry analysis in formalin fixed and paraffin embedded human kidney tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of MOGT1 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



MOGT1 Antibody (C-term) (Cat. #AP11317b) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

#### **MOGT1 Antibody (C-term) - Background**

Acyl-CoA:monoacylglycerol acyltransferase (MOGAT; EC 2.3.1.22) catalyzes the synthesis of diacylglycerols, the precursor of physiologically important lipids such as triacylglycerol and phospholipids (Yen et al., 2002 [PubMed 12077311]). [supplied by OMIM].

#### **MOGT1 Antibody (C-term) - References**

Hillier, L.W., et al. Nature 434(7034):724-731(2005)  
Winter, A., et al. Cytogenet. Genome Res. 102 (1-4), 42-47 (2003) :  
Yen, C.L., et al. Proc. Natl. Acad. Sci. U.S.A. 99(13):8512-8517(2002)  
Cases, S., et al. J. Biol. Chem. 276(42):38870-38876(2001)