

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

Specification

MOGT1 Antibody (C-term) - Product Information

Application	FC, IHC-P, WB,E
Primary Accession	O96PD6
Other Accession	NP_477513.2
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

FC~~1:10~50

IHC-P~~1:50~100

WB~~1:1000

E~~Use at an assay dependent concentration.

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

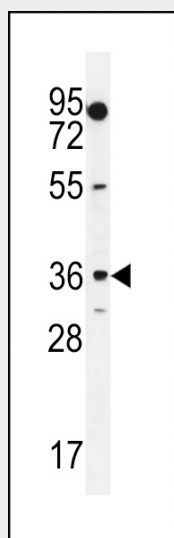
Expressed in stomach and liver.

MOGT1 Antibody (C-term) - Protocols

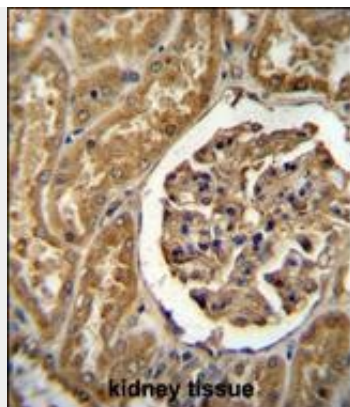
Provided below are standard protocols that you may find useful for product applications.

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

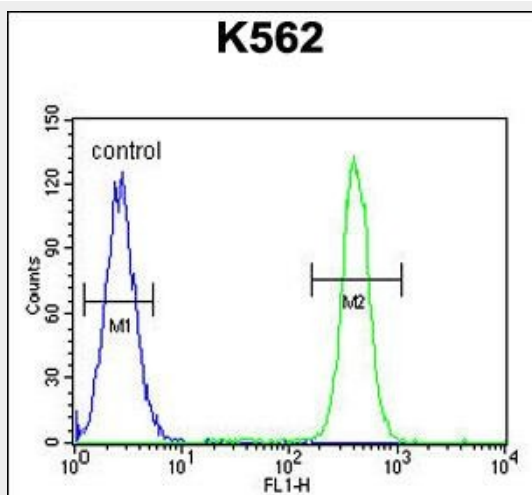
MOGT1 Antibody (C-term) - Images



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)