10320 Camino Santa Fe, Suite G
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MOGT1 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP56802

Specification

MOGT1 Polyclonal Antibody - Product Information

Application	**IHC-P, IHC-F, IF, ICC, E**
Primary Accession	Q96PD6
Reactivity	**Rat, Pig**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**39 KDa**
Physical State	**Liquid**
Immunogen	**KLH conjugated synthetic peptide derived from human MOGT1**
Epitope Specificity	**251-335/335**
Isotype	**IgG**

Purity
affinity purified by Protein A

Buffer	**0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.**
SUBCELLULAR LOCATION	**Endoplasmic reticulum membrane.**
SIMILARITY	**Belongs to the diacylglycerol acyltransferase family.**
Important Note	**This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.**

Background Descriptions
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, Mar 2008]

MOGT1 Polyclonal Antibody - Additional Information

Gene ID 116255

Other Names
2-acylglycerol O-acyltransferase 1, 2.3.1.22, Acyl-CoA:monoacylglycerol acyltransferase 1, MGAT1, Diacylglycerol O-acyltransferase candidate 2, hDC2, Diacylglycerol acyltransferase 2-like protein 1, Monoacylglycerol O-acyltransferase 1, MOGAT1 (HGNC:18210), DC2, DGAT2L1

Dilution
IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>ICC~~N/A<br \>E~~N/A

Storage
Store at -20 ℃ for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 ℃.

MOGT1 Polyclonal Antibody - 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}

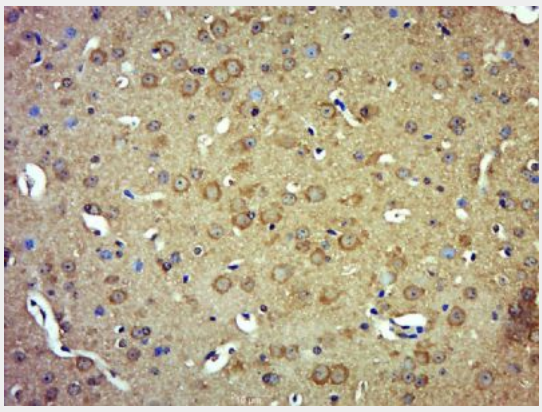
Tissue Location
Expressed in stomach and liver.

MOGT1 Polyclonal Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

MOGT1 Polyclonal Antibody - Images



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Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (MOGT1) Polyclonal Antibody, Unconjugated (bs-17707R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.