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MOGAT2 Antibody (internal region)

Peptide-affinity purified goat antibody
Catalog # AF3311a

Specification

MOGAT2 Antibody (internal region) - Product Information

Application	**WB**
Primary Accession	Q3SYC2
Other Accession	NP_079374.2, 80168
Reactivity	**Human**
Predicted	**Pig, Dog, Cow**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**0.5 mg/ml**
Isotype	**IgG**
Calculated MW	**38196**

MOGAT2 Antibody (internal region) - Additional Information

Gene ID 80168

Other Names
2-acylglycerol O-acyltransferase 2, 2.3.1.22, 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

Format
0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
MOGAT2 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

MOGAT2 Antibody (internal region) - Protein Information

Name MOGAT2 (HGNC:23248)

Synonyms DC5, DGAT2L5

Function
Involved in glycerolipid synthesis and lipid metabolism (PubMed:12621063, PubMed:18768481, PubMed:<a

href="http://www.uniprot.org/citations/27184406" target="_blank">27184406, PubMed:28420705). Catalyzes the formation of diacylglycerol, the precursor of triacylglycerol, by transferring the acyl chain of a fatty acyl-CoA to a monoacylglycerol (PubMed:12621063, PubMed:27184406). Plays a central role in absorption of dietary fat in the small intestine by catalyzing the resynthesis of triacylglycerol in enterocytes (By similarity). Has a preference toward monoacylglycerols containing unsaturated fatty acids in an order of C18:3 > C18:2 > C18:1 > C18:0 at sn-2 (PubMed:12621063). Able to use 1-monoalkylglycerol (1-MAkG, 1-O- alkylglycerol) as an acyl acceptor for the synthesis of monoalkyl- monoacylglycerol (MAMAG, 1-O-alkyl-3-acylglycerol or 1-O-alkyl-2- acylglycerol) and subsequently, with lower efficiency, may add another acyl chain producing monoalkyl-diacylglycerol (MADAG, 1-O-alkyl-2,3- diacylglycerol) (PubMed:28420705). Possesses weak but significant activity with diacylglycerol as substrate, producing triacylglycerol (triacyl-sn-glycerol) (PubMed:18768481).

Cellular Location
Endoplasmic reticulum membrane; Multi-pass membrane protein. Cytoplasm, perinuclear region

Tissue Location
Highly expressed in liver, small intestine, colon, stomach and kidney.

MOGAT2 Antibody (internal region) - 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

MOGAT2 Antibody (internal region) - Images

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AF3311a (0.05 µg/ml) staining of Human Duodenum lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

MOGAT2 Antibody (internal region) - References

A predominant role of acyl-CoA:monoacylglycerol acyltransferase-2 in dietary fat absorption implicated by tissue distribution, subcellular localization, and up-regulation by high fat diet. Cao J, Hawkins E, Brozinick J, Liu X, Zhang H, Burn P, Shi Y, The Journal of biological chemistry 2004 Apr 279 (18): 18878-86. PMID: 14966132