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MOGAT2 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP56801

Product Information

Application	IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q3SYC2
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	38196

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 (HGNC:23248), DC5, DGAT2L5
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C 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 °C.

Protein Information

Name	MOGAT2 (HGNC:23248)
Synonyms	DC5, DGAT2L5
Function	Involved in glycerolipid synthesis and lipid metabolism (PubMed: 12621063, PubMed:18768481, PubMed: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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.