

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:18768481, PubMed:18768481)

[27184406](http://www.uniprot.org/citations/27184406), PubMed: [28420705](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/12621063), PubMed: [27184406](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/28420705)). Possesses weak but significant activity with diacylglycerol as substrate, producing triacylglycerol (triacyl-sn-glycerol) (PubMed: [18768481](http://www.uniprot.org/citations/18768481)).

Cellular Location

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

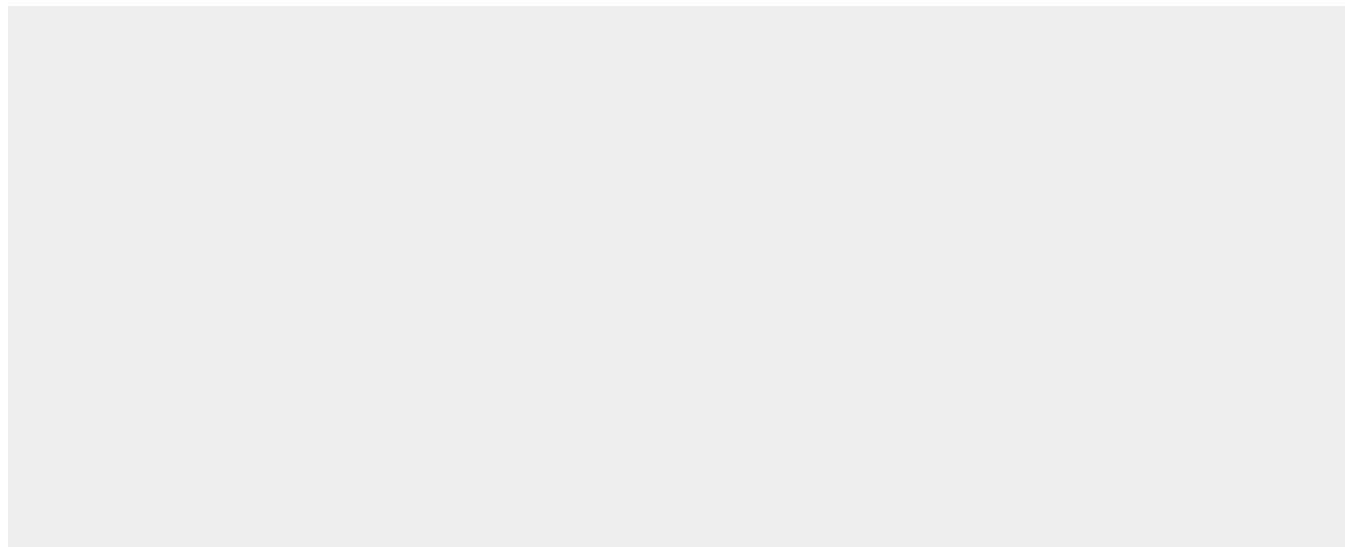
Tissue Location

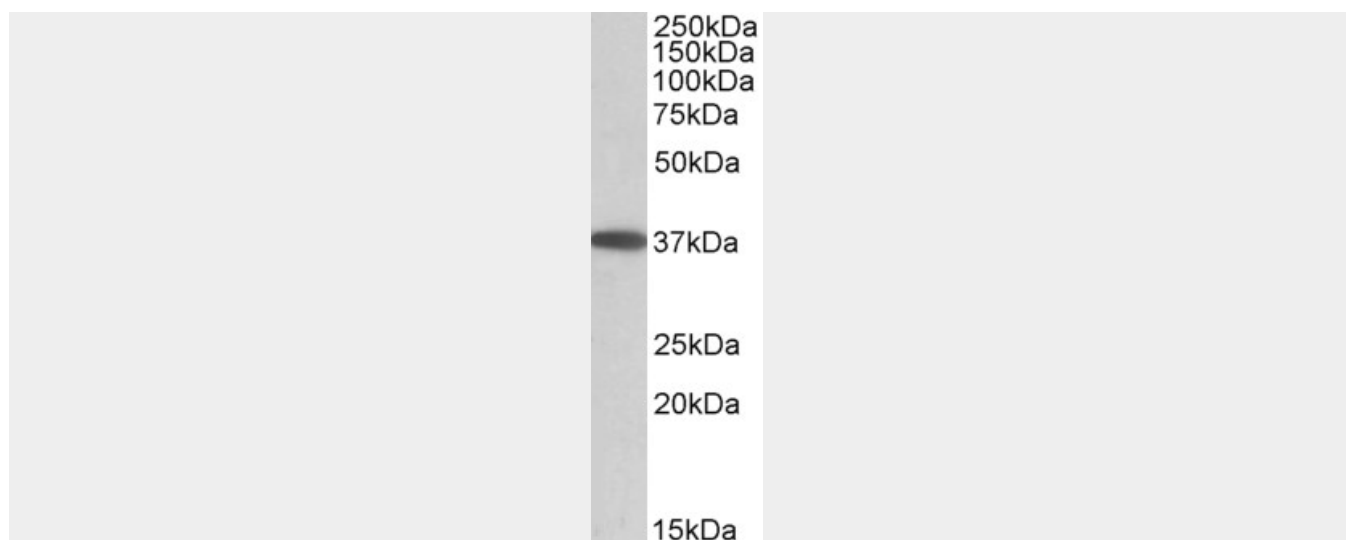
Highly expressed in liver, small intestine, colon, stomach and kidney.

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 Cytometry](#)
- [Cell Culture](#)

MOGAT2 Antibody (internal region) - Images



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