10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Mouse MOGT2 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1122b

Specification

Mouse MOGT2 Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	Q80W94
Reactivity	**Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**38591**
Antigen Region	**278-312**

Mouse MOGT2 Antibody (C-term) - Additional Information

Gene ID 233549

Other Names
2-acylglycerol O-acyltransferase 2, Acyl-CoA:monoacylglycerol acyltransferase 2, MGAT2, Diacylglycerol acyltransferase 2-like protein 5, Monoacylglycerol O-acyltransferase 1-like, Monoacylglycerol O-acyltransferase 2, Mogat2, Dgat2l5, Mgat1l

Target/Specificity
This Mouse MOGT2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 278-312 amino acids from the C-terminal region of mouse MOGT2.

Dilution
WB~~1:1000

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

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
Mouse MOGT2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Mouse MOGT2 Antibody (C-term) - Protein Information

Name Mogat2 {ECO:0000312|MGI:MGI:2663253}

Synonyms Dgat2l5, Mgat1l

Function Involved in glycerolipid synthesis and lipid metabolism (PubMed:12576479, PubMed:12730219, PubMed:14966132, PubMed:12621063). Plays a central role in absorption of dietary fat in the small intestine by catalyzing the resynthesis of triacylglycerol in enterocytes (Probable). 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:12730219). Has a preference toward monoacylglycerols containing unsaturated fatty acids in an order of C18:3 > C18:2 > C18:1 > C18:0 (PubMed:12730219). 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) (PubMed:12730219). Possesses weak but significant activity with diacylglycerol as substrate, producing triacylglycerol (triacyl-sn-glycerol) (PubMed:12730219).

Cellular Location
Endoplasmic reticulum membrane; Multi-pass membrane protein. Cytoplasm, perinuclear region {ECO:0000250|UniProtKB:Q3SYC2}

Tissue Location
Mainly expressed in small intestine. Detected in the small intestine in a proximal-to-distal gradient that correlated with fat absorption pattern. Present not only in the villi, but also in the crypt regions of the small intestine, which suggests that expression occurs prior to the maturation of enterocytes. Not detectable in other sections of the digestive tract, including stomach, cecum, colon and rectum, or other tissues such as kidney, liver and adipocytes (at protein level). Also detected in kidney, adipose and stomach. Expressed at very low level in liver, skeletal muscle and spleen. Not expressed in brain, heart, lung, skin, testis and thymus

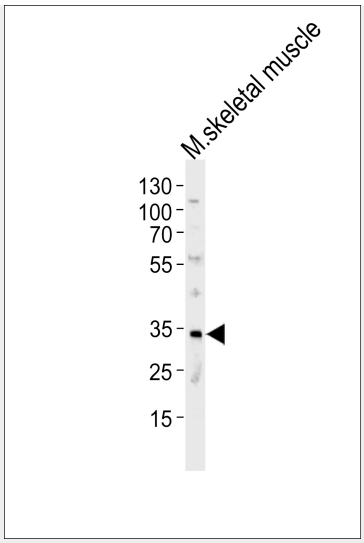
Mouse MOGT2 Antibody (C-term) - Protocols

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

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

Mouse MOGT2 Antibody (C-term) - Images

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



Western blot analysis of lysate from mouse skeletal muscle tissue lysate, using MOGT2 Antibody (C-term)(Cat. #AP1122b). AP1122b was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug per lane.

Mouse MOGT2 Antibody (C-term) - Background

MOGT2 catalyzes the formation of diacylglycerol from 2-monoacylglycerol and fatty acyl-CoA. It exhibits a preference toward monoacylglycerols containing unsaturated fatty acids in the order of C18:3 > C18:2 > C18:1 > C18:0. This protein plays a central role in absorption of dietary fat in the small intestine by catalyzing the resynthesis of triacylglycerol in enterocytes. MOGT2 may play a role in diet-induced obesity.

Mouse MOGT2 Antibody (C-term) - References

Cao,J., J. Biol. Chem. 279 (18), 18878-18886 (2004)
Cao,J., J. Biol. Chem. 278 (28), 25657-25663 (2003)
Yen,C.L., J. Biol. Chem. 278 (20), 18532-18537 (2003)