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MOGT3 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP11954b

Specification

MOGT3 Antibody (C-term) - Product Information

Application	**FC, WB,E**
Primary Accession	Q86VF5
Other Accession	NP_835470.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**38730**
Antigen Region	**295-329**

MOGT3 Antibody (C-term) - Additional Information

Gene ID 346606

Other Names
2-acylglycerol O-acyltransferase 3, Acyl-CoA:monoacylglycerol acyltransferase 3, MGAT3, Diacylglycerol O-acyltransferase candidate 7, hDC7, Diacylglycerol acyltransferase 2-like protein 7, Monoacylglycerol O-acyltransferase 3, MOGAT3, DC7, DGAT2L7

Target/Specificity
This MOGT3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 295-329 amino acids from the C-terminal region of human MOGT3.

Dilution
FC~~1:10~50
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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
MOGT3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

MOGT3 Antibody (C-term) - Protein Information

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Name MOGAT3 (HGNC:23249)

Synonyms DC7, DGAT2L7

Function Catalyzes the formation of diacylglycerol from 2- monoacylglycerol and fatty acyl-CoA. Also able to catalyze the terminal step in triacylglycerol synthesis by using diacylglycerol and fatty acyl-CoA as substrates. Has a preference toward palmitoyl-CoA and oleoyl-CoA. May be involved in absorption of dietary fat in the small intestine by catalyzing the resynthesis of triacylglycerol in enterocytes. Also able to use 1-monoalkylglycerol (1-MAkG) as an acyl acceptor for the synthesis of monoalkyl-monoacylglycerol (MAMAG) (PubMed:28420705).

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

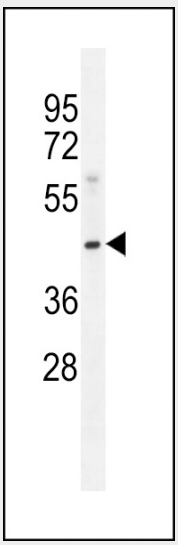
Tissue Location
Selectively expressed in the digestive system. Highly expressed in the ileum, and at lower level in jejunum, duodenum, colon, cecum and the rectum. Not expressed in the stomach and the esophagus and trachea. Expressed at very low level in liver

MOGT3 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

MOGT3 Antibody (C-term) - Images



MOGT3 Antibody (C-term) (Cat. #AP11954b) western blot analysis in Jurkat cell line lysates (35ug/lane).This demonstrates the MOGT3 antibody detected the MOGT3 protein (arrow).

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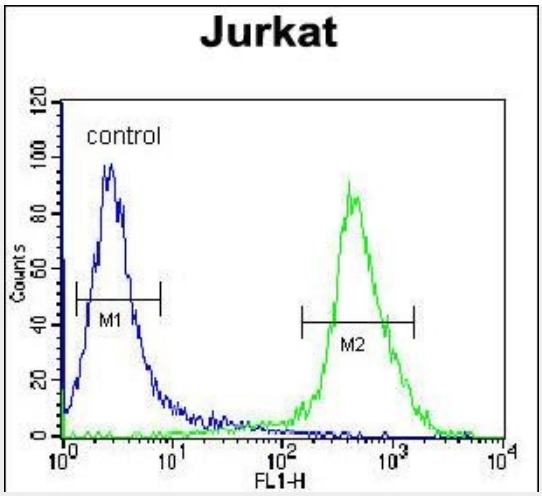

MOGT3 Antibody (C-term) (Cat. #AP11954b) flow cytometric analysis of Jurkat cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated donkey-anti-rabbit secondary antibodies were used for the analysis.

MOGT3 Antibody (C-term) - Background

Acyl-CoA:monoacylglycerol acyltransferase (MOGAT; EC 2.3.1.22) catalyzes the synthesis of diacylglycerol from 2-monoacylglycerol and fatty acyl-CoA (Cheng et al., 2003 [PubMed 12618427]).

MOGT3 Antibody (C-term) - References

Clark, H.F., et al. Genome Res. 13(10):2265-2270(2003)
Cheng, D., et al. J. Biol. Chem. 278(16):13611-13614(2003)
Winter, A., et al. Cytogenet. Genome Res. 102 (1-4), 42-47 (2003) :