ARG42173
anti-MOGAT2 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes MOGAT2
Tested Reactivity	Hu
Predict Reactivity	Cow, Dog, Pig
Tested Application	IHC-P, WB
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	MOGAT2
Species	Human
Immunogen	Synthetic peptide around the internal region of Human MOGAT2. (C-KESAAHILNRK) (NP_079374.2)
Conjugation	Un-conjugated
Alternate Names	DGAT2L5; Acyl-CoA:monoacylglycerol acyltransferase 2; 2-acylglycerol O-acyltransferase 2; Diacylglycerol O-acyltransferase candidate 5; Diacylglycerol acyltransferase 2-like protein 5; MGAT2; hDC5; hMGAT2; EC 2.3.1.22; Monoacylglycerol O-acyltransferase 2

Application Instructions

Application table

Application	Dilution
IHC-P	3 - 5 µg/ml
WB	0.05 - 0.2 µg/ml

Application Note: WB: Recommend incubate at RT for 1h.
IHC-P: Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0).
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Positive Control: Human duodenum

Observed Size: ~ 37 kDa

Properties

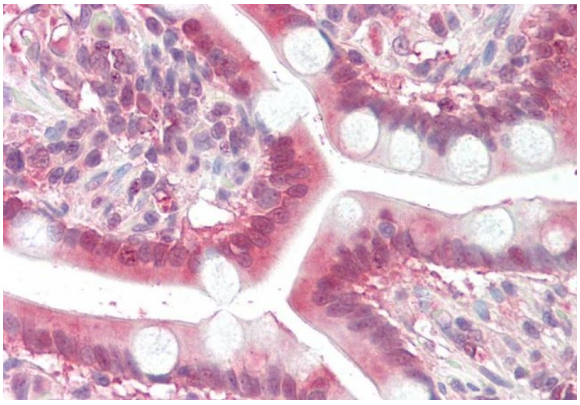
Form	Liquid
Purification	Affinity purified
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA

Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

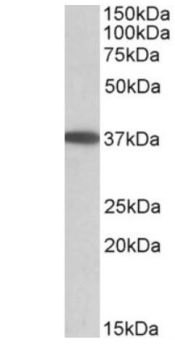
Gene Symbol	MOGAT2
Gene Full Name	monoacylglycerol O-acyltransferase 2
Background	The protein encoded by this gene is an enzyme that catalyzes the synthesis of diacylglycerol from 2-monoacylglycerol and fatty acyl-CoA. The encoded protein is important in the uptake of dietary fat by the small intestine. This protein forms a complex with diacylglycerol O-acyltransferase 2 in the endoplasmic reticulum, and this complex catalyzes the synthesis of triacylglycerol. [provided by RefSeq, Dec 2015]
Function	Catalyzes the formation of diacylglycerol from 2-monoacylglycerol and fatty acyl-CoA. Has a preference toward monoacylglycerols containing unsaturated fatty acids in an order of C18:3 > C18:2 > C18:1 > C18:0. Plays a central role in absorption of dietary fat in the small intestine by catalyzing the resynthesis of triacylglycerol in enterocytes. May play a role in diet-induced obesity. [UniProt]
Calculated Mw	38 kDa
Cellular Localization	Endoplasmic reticulum membrane; Multi-pass membrane protein. [UniProt]

Images



ARG42173 anti-MOGAT2 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human small intestine tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG42173 anti-MOGAT2 antibody at 3.75 µg/ml dilution followed by AP-staining.



Human duodenum

ARG42173 anti-MOGAT2 antibody WB image

Western blot: 35 µg of Human duodenum lysate (in RIPA buffer) stained with ARG42173 anti-MOGAT2 antibody at 0.05 µg/ml dilution and incubated at RT for 1 hour.