SOAT1 Monoclonal Antibody

Catalog No	YP-mAb-06240
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	SOAT1 ACACT ACACT1 ACAT ACAT1 SOAT STAT
Immunogen	Synthesized peptide derived from part region of human protein
Specificity	SOAT1 Monoclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	SOAT1;ACACT;ACAT;ACAT-1;Acyl-coenzyme A:cholesterol acyltransferase 1; SOAT1 ACACT ACACT1 ACAT ACAT1 SOAT STAT;Sterol O-acyltransferase 1 (EC 2.3.1.26) (Acyl-coenzyme A:cholesterol acyltransferase 1) (ACAT-1) (Cholesterol acyltransferase 1)
Observed Band	65 kDa
Calculated Molecular Weight	550 aa, 65 kDa
Cell Pathway	Endoplasmic reticulum membrane ; Multi-pass membrane protein .
Tissue Specificity	Macrophage,Placenta,
Function	catalytic activity:Acyl-CoA + cholesterol = CoA + cholesterol ester., disease:Accumulation of insoluble cholesterol esters in macrophages and smooth muscle is a characteristic feature of early lesions of atherosclerotic plaque.,function:Catalyzes the formation of fatty acid-cholesterol esters. Plays a role in lipoprotein assembly and dietary cholesterol absorption. In addition to its acyltransferase activity, it may act as a ligase.,induction:Highly activated by the presence of cholesterol.,similarity:Belongs to the membrane-bound acyltransferase family. Sterol o-acyltransferase subfamily.,subunit:May form homo- or heterodimers.,

Background	The protein encoded by this gene belongs to the acyltransferase family. It is located in the endoplasmic reticulum, and catalyzes the formation of fatty acid-cholesterol esters. This gene has been implicated in the formation of beta-amyloid and atherosclerotic plaques by controlling the equilibrium between free cholesterol and cytoplasmic cholesteryl esters. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Nov 2011],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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