

# ACAT1 antibody - middle region

Rabbit Polyclonal Antibody

Catalog # AI13630

## Product Information

<b>Application</b>	WB, IHC
<b>Primary Accession</b>	<a href="#">P35610</a>
<b>Other Accession</b>	<a href="#">NM_000019</a> , <a href="#">NP_000010</a>
<b>Reactivity</b>	Human, Mouse, Rat, Rabbit, Zebrafish, Dog, Guinea Pig, Horse, Bovine
<b>Predicted</b>	Mouse, Rabbit, Chicken, Dog, Guinea Pig
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	64735

## Additional Information

<b>Gene ID</b>	6646
<b>Alias Symbol</b>	ACAT, MAT, T2, THIL
<b>Other Names</b>	Sterol O-acyltransferase 1, 2.3.1.26, Acyl-coenzyme A:cholesterol acyltransferase 1, ACAT-1, Cholesterol acyltransferase 1, SOAT1, AACT, AACT1, ACAT, ACAT1, SOAT, STAT
<b>Format</b>	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
<b>Reconstitution &amp; Storage</b>	Add 50 ul of distilled water. Final anti-ACAT1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
<b>Precautions</b>	ACAT1 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

<b>Name</b>	SOAT1 ( <a href="#">HGNC:11177</a> )
<b>Function</b>	Catalyzes the formation of fatty acid-cholesterol esters, which are less soluble in membranes than cholesterol (PubMed: <a href="#">16154994</a> , PubMed: <a href="#">16647063</a> , PubMed: <a href="#">32433613</a> , PubMed: <a href="#">32433614</a> , PubMed: <a href="#">32944968</a> , PubMed: <a href="#">9020103</a> ). Plays a role in lipoprotein assembly and dietary cholesterol absorption (PubMed: <a href="#">16154994</a> , PubMed: <a href="#">9020103</a> ). Preferentially utilizes oleoyl-CoA ((9Z)-octadecenoyl-CoA) as a substrate: shows a higher activity towards an acyl-CoA substrate with a double bond at the delta-9 position (9Z) than towards saturated acyl-CoA or an unsaturated acyl-CoA with a double bond at the delta-7 (7Z) or delta-11 (11Z) positions

(PubMed:[11294643](#), PubMed:[32433614](#)).

## Cellular Location

Endoplasmic reticulum membrane; Multi-pass membrane protein

## References

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Chang C.C.Y.,et al.J. Biol. Chem. 268:20747-20755(1993).

Chang C.C.Y.,et al.Submitted (MAY-1999) to UniProtKB.

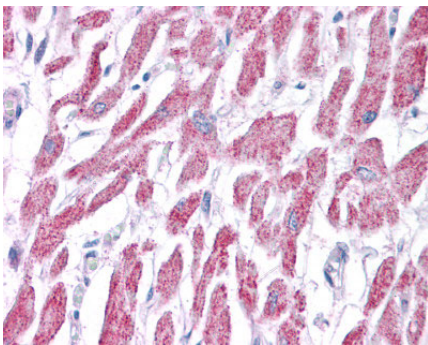
Ota T.,et al.Nat. Genet. 36:40-45(2004).

Gregory S.G.,et al.Nature 441:315-321(2006).

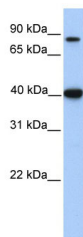
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.

## Images

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Human Heart



WB Suggested Anti-ACAT1 Antibody Titration: 1 µg/ml  
Positive Control: Fetal heart lysate

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.