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ACAT1 antibody - middle region

Rabbit Polyclonal Antibody
Catalog # AI13630

Product Information

Application	WB, IHC
Primary Accession	P35610
Other Accession	NM_000019, NP_000010
Reactivity	Human, Mouse, Rat, Rabbit, Zebrafish, Dog, Guinea Pig, Horse, Bovine
Predicted	Mouse, Rabbit, Chicken, Dog, Guinea Pig
Host	Rabbit
Clonality	Polyclonal
Calculated MW	64735

Additional Information

Gene ID	6646
Alias Symbol	ACAT, MAT, T2, THIL
Other Names	Sterol O-acyltransferase 1, 2.3.1.26, Acyl-coenzyme A:cholesterol acyltransferase 1, ACAT-1, Cholesterol acyltransferase 1, SOAT1, ACACT, ACACT1, ACAT, ACAT1, SOAT, STAT
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	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.
Precautions	ACAT1 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SOAT1 (HGNC:11177)
Function	Catalyzes the formation of fatty acid-cholesterol esters, which are less soluble in membranes than cholesterol (PubMed:16154994, PubMed:16647063, PubMed:32433613, PubMed:32433614, PubMed:32944968, PubMed:9020103). Plays a role in lipoprotein assembly and dietary cholesterol absorption (PubMed:16154994, PubMed:9020103). 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

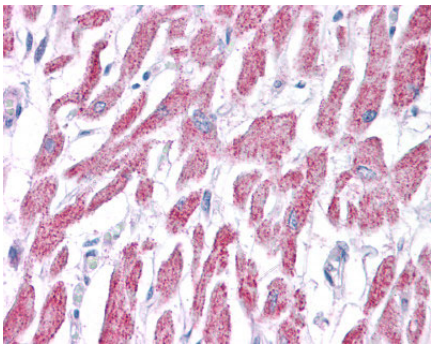
(PubMed:11294643, PubMed:32433614).

Cellular Location Endoplasmic reticulum membrane; Multi-pass membrane protein

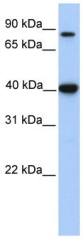
References

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



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'.