

ACAT1 antibody - middle region
Rabbit Polyclonal Antibody
Catalog # AI13630**Specification**

ACAT1 antibody - middle region - Product Information

Application	WB, IHC
Primary Accession	P35610
Other Accession	NM_000019 , NP_000010
Reactivity	Human, Mouse, Rat, Rabbit, Horse, Bovine, Guinea Pig, Dog
Predicted Host	Mouse, Rabbit, Chicken, Guinea Pig, Dog
Clonality	Rabbit
Calculated MW	Polyclonal 41kDa KDa

ACAT1 antibody - middle region - 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, AACT, AACT1, 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.

ACAT1 antibody - middle region - 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)

target="_blank">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

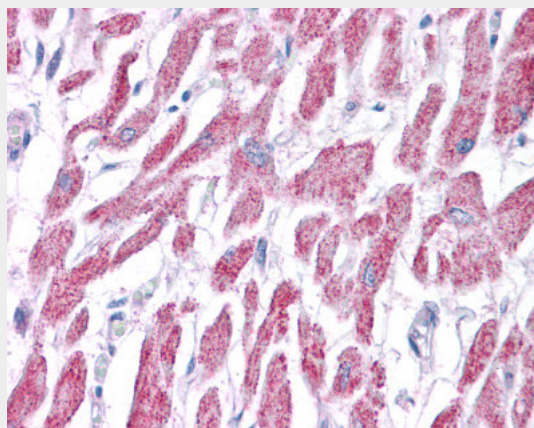
Endoplasmic reticulum membrane; Multi-pass membrane protein

ACAT1 antibody - middle region - Protocols

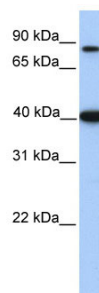
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ACAT1 antibody - middle region - Images



Human Heart



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

ACAT1 antibody - middle region - 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.