10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

SOAT2 Rabbit pAb

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Catalog # AP58259

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	O75908
Reactivity	Rat, Human, Mouse
Predicted	Pig, Dog, Rabbit, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	59896
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ACAT2
Epitope Specificity	331-430/522
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Endoplasmic reticulum membrane; Multi-pass membrane protein.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Acetyl-Coenzyme A acetyltransferase 2 is an enzyme involved in lipid metabolism. Reported patients with ACAT2 deficiency have shown severe mental retardation and hypotonus. The ACAT2 gene shows complementary overlapping with the 3-prime region of the TCP1 gene in both mouse and human. These genes are encoded on opposite strands of DNA, as well as in opposite transcriptional orientation.

Additional Information

Gene ID	8435
Other Names	Sterol O-acyltransferase 2, 2.3.1.26, Acyl-coenzyme A:cholesterol acyltransferase 2, ACAT-2, Cholesterol acyltransferase 2, SOAT2 (HGNC:11178), ACACT2, ACAT2
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	SOAT2 (HGNC:11178)
Synonyms	ACACT2, ACAT2
Function	Catalyzes the formation of fatty acid-cholesterol esters, which are less soluble in membranes than cholesterol (PubMed:11294643, PubMed:16647063). Plays a role in lipoprotein assembly and dietary cholesterol absorption (PubMed:11294643). Utilizes oleoyl-CoA ((9Z)-octadecenoyl-CoA) and linolenoyl-CoA ((9Z,12Z,15Z)-octadecatrienoyl- CoA) as substrates (PubMed:11294643). May provide cholesteryl esters for lipoprotein secretion from hepatocytes and intestinal mucosa (PubMed:11294643).
Cellular Location	Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:O88908}; Multi-pass membrane protein
Tissue Location	Expression seems confined in hepatocytes and enterocytes.

Background

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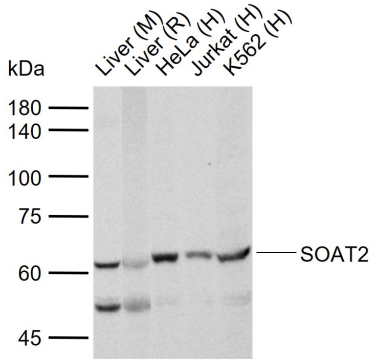
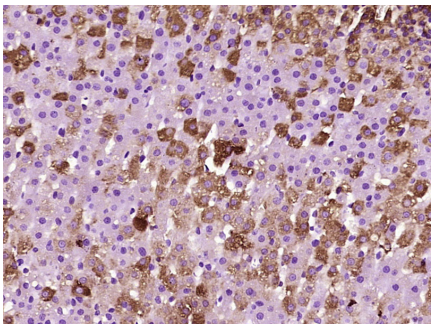
Images



Sample:
Lane 1: Mouse Liver tissue lysates
Lane 2: Rat Liver tissue lysates
Lane 3: Human HeLa cell lysates
Lane 4: Human Jurkat cell lysates
Lane 5: Human K562 cell lysates
Primary: Anti-SOAT2 (AP58259) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 60 kDa
Observed band size: 61 kDa



Paraformaldehyde-fixed, paraffin embedded (Rat adrenal gland); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SOAT2) Polyclonal Antibody, Unconjugated (AP58259) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.