

Rabbit anti-Human SOAT 1 Polyclonal Antibody | anti-SOAT1 antibody

Anti-SOAT 1 Antibody, Rabbit Polyclonal

CATALOG # AAA259024	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunofluorescence, Immunocytochemistry, Immunohistochemistry
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PRODUCT SYNONYMS

SOAT 1; Polyclonal Antibody; Anti-SOAT 1 Antibody; Rabbit Polyclonal; anti-SOAT1 antibody

PRODUCT SPECIFICATIONS

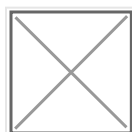
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human SOAT 1
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-SOAT1 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry)
Immunogen	E coli-derived Human SOAT 1 fragment
Preparation	Produced in rabbits immunized with E coli-derived Human SOAT 1 fragment, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.

IMAGES



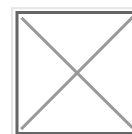
IF (Immunofluorescence)

Immunofluorescence staining of SOAT1 in A431 cells. Cells were fixed with 4% PFA, permeabilized with 0.3% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-Human SOAT1 polyclonal antibody (dilution ratio 1:100) at 4? overnight. Then cells were stained with the Alexa Fluor488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI (blue). Positive staining was localized to Cytoplasm.



IHC (Immunohistochemistry)

Immunochemical staining of human SOAT 1 in human adrenal gland with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections.



IHC (Immunohistochemistry)

Immunochemical staining of human SOAT 1 in human placenta with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections.

ADDITIONAL INFORMATION

Related Product Information for anti-SOAT1 antibody	Sterol O-acyltransferase 1 (SOAT1/ACAT1) is a key enzyme for cholesteryl ester biosynthesis. SOAT1 is an allosteric enzyme; it can utilize a variety of sterols (including oxysterols, plant sterols, etc.) as a substrate as well as an activator, with cholesterol being the best substrate and the best activator. The preferred fatty acyl-CoA as a substrate for ACAT1 is oleoyl-CoA. SOAT1 is responsible for the formation of foam cell in macrophages. SOAT1 is located mainly at the endoplasmic reticulum (ER), and is ubiquitously expressed in tissues and cells. SOAT1 is constitutively expressed and likely functions to maintain the intracellular balance of free and esterified cholesterol. SOAT1 is involved in the formation of atherosclerotic plaques, and was involved in regulating inflammation.
References	Shibuya Y, et al. (2015) Acat1/soat1 as a therapeutic target for alzheimer's disease. Future Med Chem 7 (18): 2451-2467. Khatib SA, et al. (2019) Proteomic heterogeneity reveals soat1 as a potential biomarker for hepatocellular carcinoma. Transl Gastroenterol Hepatol 4 37. Abuzhalihan J, et al. (2019) Soat1 methylation is associated with coronary heart disease. Lipids Health Dis 18 (1): 192.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/soat-1-antibody-immunofluorescence-immunocytochemistry-immunohistochemistry-elisa/259024>