

# Product Datasheet

## SOAT1 Antibody - BSA Free

### NB400-141SS

Unit Size: 0.025 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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**NB400-141SS**

SOAT1 Antibody - BSA Free

Product Information	
<b>Unit Size</b>	0.025 ml
<b>Concentration</b>	This product is unpurified. The exact concentration of antibody is not quantifiable.
<b>Storage</b>	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.02% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Unpurified
<b>Buffer</b>	Whole antisera
<b>Target Molecular Weight</b>	46 kDa
Product Description	
<b>Description</b>	Novus Biologicals Rabbit SOAT1 Antibody - BSA Free (NB400-141) is a polyclonal antibody validated for use in WB, ICC/IF and IP. Anti-SOAT1 Antibody: Cited in 7 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	6646
<b>Gene Symbol</b>	SOAT1
<b>Species</b>	Human, Mouse, Hamster
<b>Specificity/Sensitivity</b>	This product is specific for protein corresponding to SOAT1 Uniprot# P35610, Gene ID# 6646. [Important Note:- ACAT1 is a symbol for both acyl-Coenzyme A: cholesterol acyltransferase 1 (SOAT1/ACAT1) and for acetyl-CoA acetyltransferase 1 (ACAT1/ THIL, Gene ID 38, Uniprot P24752) which often cause confusion].
<b>Immunogen</b>	A fusion protein construct that contains the N-terminal region of human SOAT1. [UniProt# P35610]
Product Application Details	
<b>Applications</b>	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation
<b>Recommended Dilutions</b>	Western Blot 1:400, Immunocytochemistry/ Immunofluorescence reported in scientific literature, Immunoprecipitation 2-10 ug/ml lysate
<b>Application Notes</b>	In Western blot a band is observed at ~46 kDa representing SOAT1 along with a non-specific band at ~30 kDa.  The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.

## Publications

Heisler DB, Johnson KA, Ma DH et al. A concerted mechanism involving ACAT and SREBPs by which oxysterols deplete accessible cholesterol to restrict microbial infection eLife 2023-01-25 [PMID: 36695568] (Immunoprecipitation, Western Blot, Immunocytochemistry/ Immunofluorescence, Human)

Chen D, Xia S, Zhang R Et Al. Lysine acetylation restricts mutant IDH2 activity to optimize transformation in AML cells Molecular cell 2021-07-12 [PMID: 34289383]

Ren M, Xu H, Xia H et al. Simultaneously targeting SOAT1 and CPT1A ameliorates hepatocellular carcinoma by disrupting lipid homeostasis Cell death discovery 2021-05-29 [PMID: 34052835] (IF/IHC, Mouse)

Hai Q, Ritchey B, Robinet P et al. Quantitative Trait Locus Mapping of Macrophage Cholesterol Metabolism and CRISPR/Cas9 Editing Implicate an ACAT1 Truncation as a Causal Modifier Variant Arterioscler. Thromb. Vasc. Biol. 2017-11-02 [PMID: 29097366] (WB, Mouse)

Bhathena J, Martoni C, Kulamarva A et al. Oral Probiotic Microcapsule Formulation Ameliorates Non-Alcoholic Fatty Liver Disease in Bio F1B Golden Syrian Hamsters PLoS One 2013-01-01 [PMID: 23554890] (WB, Hamster)

Song, J, Kost, C K, Jr, Martin, D S. Androgens augment renal vascular responses to ANG II in New Zealand genetically hypertensive rats. Am J Physiol Regul Integr Comp Physiol;290(6):R1608-15. 2006-06-01 [PMID: 16469840]

Chang, CC et al. Regulation and immunolocalization of acyl-coenzyme A: cholesterol acyltransferase in mammalian cells as studied with specific antibodies. J Biol Chem;270(49):29532-40. 1995-12-08 [PMID: 7493995] (IP, ICC/IF, WB, Human)





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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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