

Table SI. Spearman's rank coefficient analyses of correlation between SOAT1, TC, FC and CE levels in tissue, peritoneal fluid and plasma samples.

Variable	Tissue SOAT1 mRNA Spearman r (P-value)	Tissue SOAT1 protein Spearman r (P-value)	Peritoneal fluid SOAT1 Spearman r (P-value)	Plasma SOAT1 Spearman r (P-value)
FIGO Stage	0.711 (<0.001)	0.668 (<0.001)	0.606 (<0.001)	0.258 (0.094)
Tissue SOAT1 mRNA	---	0.721 (<0.001)	0.388 (0.050)	0.324 (0.100)
Peritoneal fluid SOAT1	0.506 (0.008)	0.388 (0.050)	---	0.342 (0.081)
Plasma SOAT1	0.342 (0.081)	0.324 (0.100)	0.231 (0.169)	---
Peritoneal fluid TC	0.451 (0.021)	0.431 (0.028)	0.434 (0.007)	-0.132 (0.435)
Peritoneal fluid FC	0.455 (0.019)	0.477 (0.014)	0.423 (0.009)	-0.118 (0.488)
Peritoneal fluid CE	0.475 (0.014)	0.467 (0.016)	0.453 (0.005)	0.037 (0.827)
Plasma TC	-0.391 (0.044)	-0.408 (0.034)	-0.261 (0.119)	-0.157 (0.332)
Plasma FC	-0.383 (0.049)	-0.408 (0.035)	-0.262 (0.117)	-0.251 (0.119)
Plasma CE	-0.232 (0.244)	-0.180 (0.369)	-0.168 (0.320)	-0.053 (0.743)

SOAT1,sterol-O-Acyl transferase; CE, cholesterol ester, TC, total cholesterol; FC, free cholesterol.

Table SII. ROC analysis of SOAT1/CE/TC/FC in peritoneal fluid, plasma and tumor tissue.

Source	Analyte	ROC	P-value
Peritoneal fluid	SOAT1 protein	0.7667	0.0094
	CE	0.61	0.2843
	TC	0.65	0.1443
	FC	0.6967	0.0556
Tissue	SOAT1 protein	0.8341	0.001
	SOAT1 mRNA	0.893	0.0005
Plasma	SOAT1 protein	0.6895	0.0563
	CE	0.5714	0.4787
	TC	0.5	>0.9999
	FC	0.5685	0.4972

SOAT1,sterol-O-Acyl transferase; CE, cholesterol ester, TC, total cholesterol; FC, free cholesterol; ROC, receiver operating characteristic.

Table SIII. Association between SOAT1 and CE levels with comorbidities.

Model 1 (unadjusted)				Model 2 (adjusted by various comorbidities)			
Variable	β	Standardized β (CI)	P-value	Comorbidity	β	Standardized β (CI)	P-value
SOAT1- Peritoneal fluid	0.001	0.405 (0.000-0.001)	0.013	BMI	0.000	0.368 (0.000-0.001)	0.023
				Obesity	0.001	0.394 (0.000-0.001)	0.017
				Diabetes	0.001	0.402 (0.000-0.001)	0.015
				Hypertension	0.001	0.411 (0.000-0.001)	0.013
				Hypothyroidism	0.001	0.427 (0.000-0.001)	0.011
SOAT1- Tissue	0.272	0.650 (0.144-0.401)	<0.001	BMI	0.255	0.608 (0.122-0.388)	0.001
				Obesity	0.272	0.648 (0.137-0.407)	<0.001
				Diabetes	0.273	0.652 (0.141-0.406)	<0.001
				Hypertension	0.271	0.647 (0.139-0.403)	<0.001
				Hypothyroidism	0.274	0.654 (0.144-0.404)	<0.001
CE- Peritoneal fluid	0.39	0.562 (0.193-0.587)	<0.001	BMI	0.455	0.656 (0.279-0.632)	<0.001
				Obesity	0.45	0.649 (0.256-0.644)	<0.001
				Diabetes	0.389	0.560 (0.188-0.589)	<0.001
				Hypertension	0.39	0.563 (0.191-0.590)	<0.001
				Hypothyroidism	0.402	0.579 (0.198-0.606)	<0.001

SOAT1,sterol-O-acyl transferase; CE, cholesterol ester; CI, confidence interval.