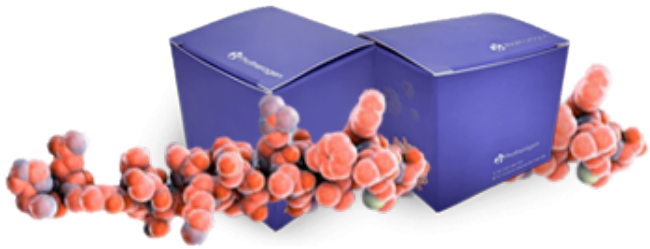
Protheragen Obesity



Human on-specific lipid-transfer protein (SCP2) ELISA kit

Cat. No.:	0126WXX-1760
Assay Type:	Quantitative ELISA
Target Species:	Human
Assay Target:	SCP2
Size:	48T; 96T

This product is for research use only and is not intended for diagnostic use.

Product Overview

Description	Human on-specific lipid-transfer protein (SCP2) ELISA kit is an ELISA-based *i n vitro* research tool designed specifically for the quantitative detection o f SCP2 in human samples. The kit is highly sensitive and easy to use.
Assay Principle	The ELISA analytical biochemical technique is based on SCP2 antibody-SCP2 antige n interactions (immunosorbency) and an HRP colorimetric detection system to dete ct SCP2 antigen targets in samples.
Background	SCP2 is a multifunctional lipid transporter primarily localized to organelles su ch as peroxisomes and mitochondria, responsible for the intracellular transport and metabolism of lipid molecules, including cholesterol, fatty acids, and phosp holipids. The core function of SCP2 lies in facilitating the efficient transfer of lipid molecules from organelle membranes to enzymatic sites, thereby influenc ing cellular lipid homeostasis. Research indicates that SCP2 activity is closely associated with lipid accumulation and insulin resistance. It is believed to ex acerbate lipotoxicity and ectopic fat deposition by promoting the accumulation o f cholesterol and fatty acids in the liver and adipose tissue. Studies indicate that SCP2 overexpression may enhance adipocyte fat storage capacity and is assoc iated with hepatic steatosis (fatty liver) in obese individuals, making it a key target for investigating lipid metabolism disorders and obesity-related complic ations.

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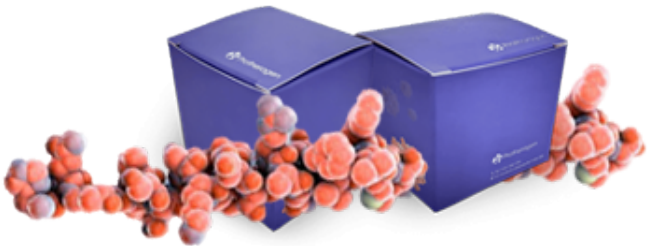

Synonyms	Sterol carrier protein 2; Propanoyl-CoA C-acyltransferase; NLTP; NSL-TP; SCP-2; SCP-CHI; SCP-X; SCPX
Formula Weight	58,994 Da
Applications	Human on-specific lipid-transfer protein (SCP2) ELISA kit is used to quantify SC P2 in human samples, providing data to support research in a wide range of areas , including lipid metabolism, peroxisome function, obesity, and others.
Research Area	Lipid Metabolism; Peroxisome function; Obesity

Specification

Sample Type	Human samples
Cross-reactivity	No significant cross-reactivity or interference was observed.
Storage	Store at 2-8°C.

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