

Recombinant Human SCP2

Cat. No. SCP2-31466TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Sterol carrier protein 2, isoform 2 with N-terminal proprietary tag. Predicted MW 41.84 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	143 amino acids
Description	This gene encodes two proteins: sterol carrier protein X (SCPx) and sterol carrier protein 2 (SCP2), as a result of transcription initiation from 2 independently regulated promoters. The transcript initiated from the proximal promoter encodes the longer SCPx protein, and the transcript initiated from the distal promoter encodes the shorter SCP2 protein, with the 2 proteins sharing a common C-terminus. Evidence suggests that the SCPx protein is a peroxisome-associated thiolase that is involved in the oxidation of branched chain fatty acids, while the SCP2 protein is thought to be an intracellular lipid transfer protein. This gene is highly expressed in organs involved in lipid metabolism, and may play a role in Zellweger syndrome, in which cells are deficient in peroxisomes and have impaired bile acid synthesis. Alternative splicing of this gene produces multiple transcript variants, some encoding different isoforms.
Molecular Weight	41.840kDa inclusive of tags
Tissue specificity	Liver, fibroblasts, and placenta.

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Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MGFPEAASSFRTHQIEAVPTSSASDGFKANLVFKEIEKKL EEEGEQFVKKIGGIFAFK VKDGPGGKEATWVVVDVKNKGKS VLPNSDKKADCTITMADSDFLALMTGKMNPQS AFFQGKLG ITGNMGLAMKLQNLQLQPGNAKL
Sequence Similarities	In the N-terminal section; belongs to the thiolase family.Contains 1 SCP2 domain.

GENE INFORMATION

Gene Name	SCP2 sterol carrier protein 2 [Homo sapiens]
Official Symbol	SCP2
Synonyms	SCP2; sterol carrier protein 2; non-specific lipid-transfer protein;
Gene ID	6342
mRNA Refseq	NM_001007098
Protein Refseq	NP_001007099
MIM	184755

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Uniprot ID	P22307
Chromosome Location	1p32
Pathway	Beta-oxidation of pristanoyl-CoA, organism-specific biosystem; Bile acid and bile salt metabolism, organism-specific biosystem; Bile acid biosynthesis, cholesterol => chenodeoxycholate, organism-specific biosystem; Bile acid biosynthesis, cholesterol =>
Function	catalytic activity; lipid binding; propanoyl-CoA C-acyltransferase activity; protein binding; sterol binding;

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