

SCP2 Antibody (N-term) Blocking peptide Synthetic peptide Catalog # BP12517a

Specification

SCP2 Antibody (N-term) Blocking peptide - Product Information

Primary Accession

<u>P22307</u>

SCP2 Antibody (N-term) Blocking peptide - Additional Information

Gene ID 6342

Other Names

Non-specific lipid-transfer protein, NSL-TP, Propanoyl-CoA C-acyltransferase, SCP-chi, SCPX, Sterol carrier protein 2, SCP-2, Sterol carrier protein X, SCP-X, SCP2

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions This product is for research use only. Not for use in diagnostic or therapeutic procedures.

SCP2 Antibody (N-term) Blocking peptide - Protein Information

Name SCP2 (<u>HGNC:10606</u>)

Function

[Isoform SCPx]: Plays a crucial role in the peroxisomal oxidation of branched-chain fatty acids (PubMed:10706581). Catalyzes the last step of the peroxisomal beta-oxidation of branched chain fatty acids and the side chain of the bile acid intermediates di- and trihydroxycoprostanic acids (DHCA and THCA) (PubMed:10706581). Also active with medium and long straight chain 3-oxoacyl-CoAs. Stimulates the microsomal conversion of 7-dehydrocholesterol to cholesterol and transfers phosphatidylcholine and 7-dehydrocholesterol between membrances, in vitro (By similarity). Isoforms SCP2 and SCPx cooperate in peroxisomal oxidation of certain naturally occurring tetramethyl- branched fatty acyl-CoAs (By similarity).

Cellular Location

[Isoform SCP2]: Peroxisome {ECO:0000250|UniProtKB:P32020}. Cytoplasm. Mitochondrion. Endoplasmic reticulum {ECO:0000250|UniProtKB:P32020}. Mitochondrion {ECO:0000250|UniProtKB:P32020}

Tissue Location



Liver, fibroblasts, and placenta.

SCP2 Antibody (N-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

<u>Blocking Peptides</u>

SCP2 Antibody (N-term) Blocking peptide - Images

SCP2 Antibody (N-term) Blocking peptide - Background

This gene encodes two proteins: sterol carrier protein X(SCPx) and sterol carrier protein 2 (SCP2), as a result oftranscription initiation from 2 independently regulated promoters. The transcript initiated from the proximal promoter encodes thelonger SCPx protein, and the transcript initiated from the distalpromoter encodes the shorter SCP2 protein, with the 2 proteinssharing a common C-terminus. Evidence suggests that the SCPxprotein is a peroxisome-associated thiolase that is involved in theoxidation of branched chain fatty acids, while the SCP2 protein isthought to be an intracellular lipid transfer protein. This gene ishighly expressed in organs involved in lipid metabolism, and mayplay a role in Zellweger syndrome, in which cells are deficient inperoxisomes and have impaired bile acid synthesis. Alternativesplicing of this gene produces multiple transcript variants, someencoding different isoforms.

SCP2 Antibody (N-term) Blocking peptide - References

Shimada, M., et al. Hum. Genet. 128(4):433-441(2010)Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)Rikova, K., et al. Cell 131(6):1190-1203(2007)Dansen, T.B., et al. J. Lipid Res. 45(1):81-88(2004)