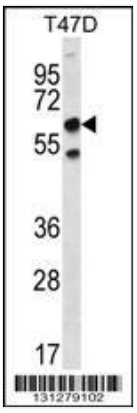
SCP2 Antibody – Rabbit Polyclonal

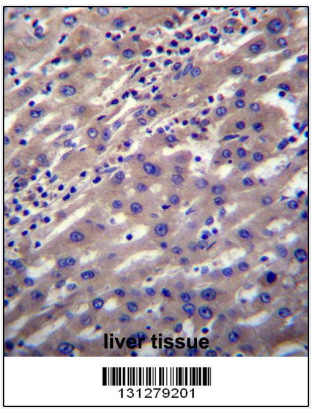
PRODUCT OVERVIEW

Product Name	SCP2, Polyclonal Antibody
Full Product Name	SCP2, NT (SCP2, Non-specific lipid-transfer protein, Propanoyl-CoA C-acyltransferase, SCP-chi, SCPX, Sterol carrier protein 2, Sterol carrier protein X) (FITC)
Product Gene Name	anti-SCP2 antibody
Product Synonym Names	SCP2; Non-specific lipid-transfer protein; Propanoyl-CoA C-acyltransferase; SCP-chi; SCPX; Sterol carrier protein 2; Sterol carrier protein X
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
OMIM	184755
3D Structure	ModBase 3D Structure for P22307
Immunogen	SCP2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 13-43 amino acids from the N-terminal region of human SCP2.
Conjugate	FITC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-SCP2 antibody	Antibodies; Enzymes; Acyltransferase
Applications Tested/Suitable for anti-SCP2 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-SCP2 antibody	IHC: 1:10-50 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-SCP2 antibody	MBS6345407 is an antibody targeting SCP2. Also known as SCP2, NT (SCP2, Non-specific lipid-transfer protein, Propanoyl-CoA C-acyltransferase, SCP-chi, SCPX, Sterol carrier protein 2, Sterol carrier protein X) (FITC). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-SCP2 antibody	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).

Other Notes	Small volumes of anti-SCP2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-SCP2 antibody
SCP2 Antibody (N-term) western blot analysis in T47D cell line lysates (35ug/lane).This demonstrates the SCP2 antibody detected the SCP2 protein (arrow).



Immunohistochemistry (IHC) of anti-SCP2 antibody
SCP2 Antibody (N-term) immunohistochemistry analysis in formalin fixed and paraffin embedded human liver tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of SCP2 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SCP2. It may not necessarily be applicable to this product.

NCBI GI #	55956779
NCBI GeneID	6342
NCBI Accession #	NP_001007101.1
NCBI Related Accession #	NP_001007251.1; NP_001007100.1
UniProt Primary Accession #	P22307
UniProt Related Accession #	P22307
GenBank Nucleotide #	NP_001007101.1
NCBI Official Full Name	non-specific lipid-transfer protein isoform 4
NCBI Official Synonym Full Names	sterol carrier protein 2
NCBI Official Symbol	SCP2
NCBI Official Synonym Symbols	NLTP; SCPX; SCP-2; SCP-X; NSL-TP; SCP-CHI
UniProt Protein Name	Non-specific lipid-transfer protein
UniProt Synonym Protein Names	Propanoyl-CoA C-acyltransferase; SCP-chi; SCPX; Sterol carrier protein 2; SCP-2; Sterol carrier protein X
Protein Family	SCP2 sterol-binding domain-containing protein
UniProt Gene Name	SCP2
UniProt Synonym Gene Names	NSL-TP; SCP-2; SCP-X
UniProt Entry Name	NLTP_HUMAN
NCBI Protein Information	non-specific lipid-transfer protein

NCBI Summary for SCP2	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.[provided by RefSeq, Aug 2010]
UniProt Comments for SCP2	SCP2: Mediates in vitro the transfer of all common phospholipids, cholesterol and gangliosides between membranes. May play a role in regulating steroidogenesis. Defects in SCP2 are a cause of leukoencephalopathy with dystonia and motor neuropathy (LDMN); also known as sterol carrier protein 2 deficiency. LDMN is a syndrome characterized by leukoencephalopathy, dystonic head tremor, spasmodic torticollis and reduced tendon reflexes in lower extremities. Additional features include hyposmia, pathologic saccadic eye movements, a slight hypoacusis, accumulation of branched-chain pristanic acid in plasma, and the presence of abnormal bile alcohol glucuronides in urine. 3 isoforms of the human protein are produced by alternative promoter. Protein type: EC 2.3.1.176; Lipid-binding; Lipid Metabolism - primary bile acid biosynthesis; Mitochondrial; Transferase Chromosomal Location of Human Ortholog: 1p32 Cellular Component: nucleoplasm; peroxisomal matrix; protein complex; intracellular membrane-bound organelle; mitochondrion; membrane; cytoplasm; peroxisome Molecular Function: protein binding; acyl-CoA binding; phosphatidylinositol transporter activity; cholesterol binding; propanoyl-CoA C-acyltransferase activity; receptor binding Biological Process: bile acid biosynthetic process; fatty acid beta-oxidation using acyl-CoA oxidase; progesterone biosynthetic process; inositol trisphosphate biosynthetic process; bile acid metabolic process; peroxisome organization and biogenesis; unsaturated fatty acid metabolic process; positive regulation of intracellular cholesterol transport; phospholipid transport; cellular lipid metabolic process; lipid transport; steroid biosynthetic process; positive regulation of steroid metabolic process Disease: Leukoencephalopathy With Dystonia And Motor Neuropathy
Research Articles on SCP2	**1.** Methylation dependent microRNA 1285-5p and sterol carrier proteins 2 in type 2 diabetes mellitus
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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