

SCP2 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8639C

Specification

SCP2 Antibody (Center) - Product Information

Application	FC, IHC-P, WB,E
Primary Accession	P22307
Other Accession	P11915 , Q62742 , P32020 , P07857
Reactivity	Human, Mouse, Rat
Predicted	Bovine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	58994
Antigen Region	358-385

SCP2 Antibody (Center) - 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

Target/Specificity

This SCP2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 358-385 amino acids from the Central region of human SCP2.

Dilution

FC~~1:10~50
IHC-P~~1:10~50
WB~~1:500-2000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

SCP2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

SCP2 Antibody (Center) - Protein Information

Name SCP2 ([HGNC:10606](#))

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 membranes, 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}

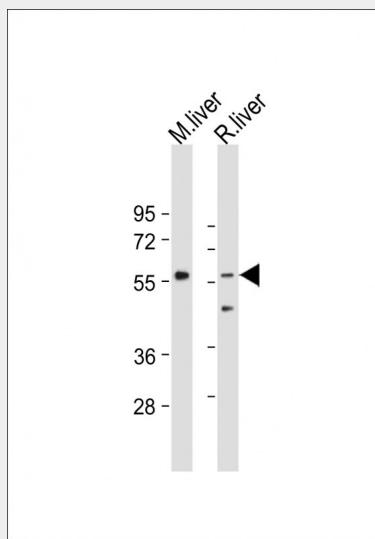
Tissue Location

Liver, fibroblasts, and placenta.

SCP2 Antibody (Center) - Protocols

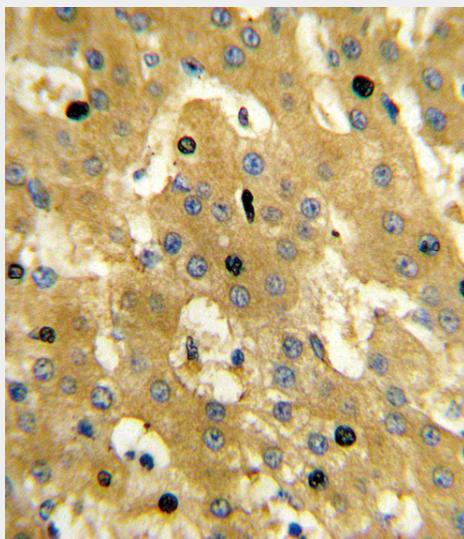
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

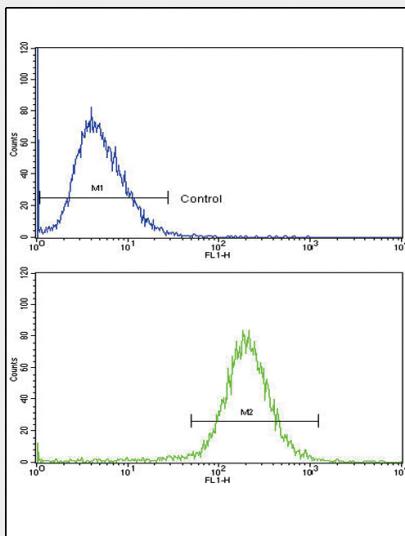
SCP2 Antibody (Center) - Images

All lanes : Anti-SCP2 Antibody (Center) at 1:500-2000 dilution Lane 1: Mouse liver tissue lysate
Lane 2: Rat liver tissue lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 59 kDa Blocking/Dilution

buffer: 5% NFDM/TBST.



Formalin-fixed and paraffin-embedded human hepatocarcinoma reacted with SCP2 Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow cytometric analysis of HepG2 cells using SCP2 Antibody (Center)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

SCP2 Antibody (Center) - Background

SCP2 mediates in vitro the transfer of all common phospholipids, cholesterol and gangliosides between membranes. It may play a role in regulating steroidogenesis.

SCP2 Antibody (Center) - References

Wu, Y.B. et al. J Biol Chem. 2009 January 2; 284(1): 640?48.
Baker, M.E., et.al., DNA Cell Biol. 10 (9), 695-698 (1991)
Vila, A., et.al., Biochemistry 43 (39), 12592-12605 (2004)