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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, O62742, 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

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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 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}

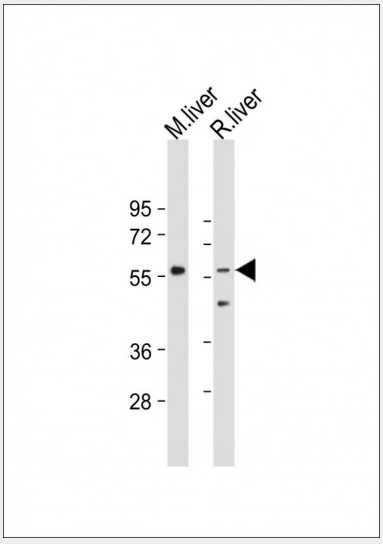
Tissue Location
Liver, fibroblasts, and placenta.

SCP2 Antibody (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 Cytomety
- 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

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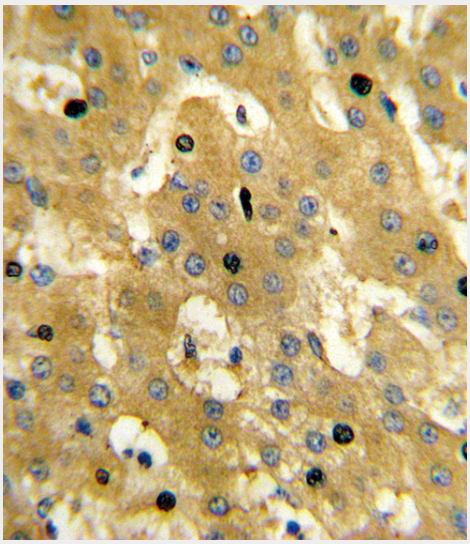
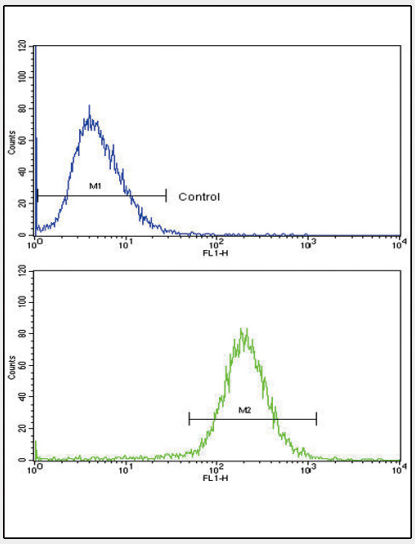
buffer: 5% NFDM/TBST.



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)