For Research Use Only

SCP2 Polyclonal antibody

Catalog Number:23006-1-AP Featured Product 11 Publications

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Basic Information

Catalog Number:
23006-1-AP

Size:
150ul , Concentration: 650 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG19215

GenBank Accession Number:
BC005911

GeneID (NCBI):
6342

UNIPROT ID:
P22307

Full Name:
sterol carrier protein 2

Calculated MW:
547 aa, 59 kDa

Observed MW:
13-15 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:1000-1:4000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IF/ICC 1:20-1:200

Applications

Tested Applications:
WB, IF/ICC, FC (Intra), IP, ELISA

Cited Applications:
WB, IHC, IF, IP

Species Specificity:
human, mouse

Cited Species:
human, mouse, rat, rabbit

Positive Controls:

WB : HEK-293T cells, HEK-293 cells, K-562 cells, NIH/3T3 cells, HepG2 cells

IP : HepG2 cells,

IF/ICC : HepG2 cells,

Background Information

SCP2 (Sterol carrier protein-2), also called nonspecific lipid-transfer protein, is thought to play a major role in intracellular lipid transport and metabolism. Mutations of SCP2 have been associated with diseases involving abnormalities in lipid trafficking, such as Zellweger syndrome. The alternative splicing generates 58 kDa SCPx and 13-15 kDa SCP2 proteins, both of which contain a C-terminal SCP2 domain. In addition to the SCP2 domain, SCPx also contains an amino-terminal thiolase domain. The proteolytic cleavage of SCPx occurred when it was imported into peroxisomes, giving rise to a 44-46 kDa thiolase and a 13-15 kDa SCP2. 23006-1-AP antibody recognizes the 13-15 kDa SCP2 protein.

Notable Publications

Author	Pubmed ID	Journal	Application
Michael Landowski	36599953	Commun Biol	WB
Shotaro Wani	26920047	J Biochem	WB
Nancy C Li	26901662	PLoS One	IF

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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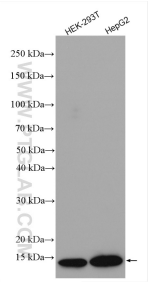
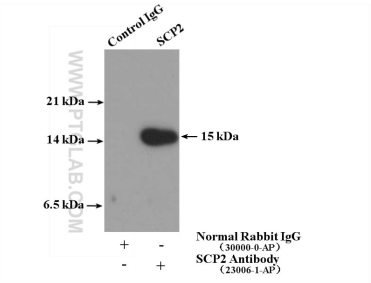
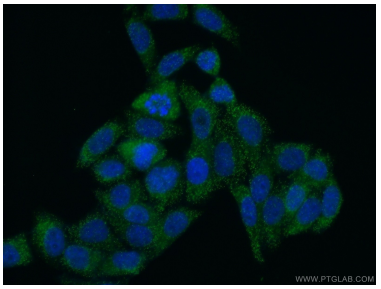
Selected Validation Data



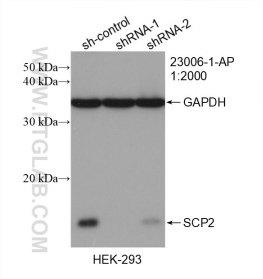
Various lysates were subjected to SDS PAGE followed by western blot with 23006-1-AP (SCP2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



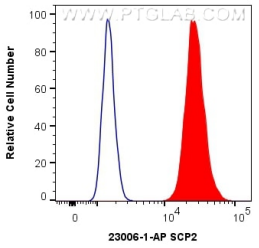
IP result of anti-SCP2 (IP:23006-1-AP, 4ug; Detection:23006-1-AP 1:500) with HepG2 cells lysate 3600ug.



Immunofluorescent analysis of (10% Formaldehyde) fixed HepG2 cells using 23006-1-AP (SCP2 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L).



WB result of SCP2 antibody (23006-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-SCP2 transfected HEK-293 cells.



1X10^6 HepG2 cells were intracellularly stained with 0.4 ug Anti-Human SCP2 (23006-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).