

## SCAP Polyclonal antibody

Catalog Number: 12266-1-AP

4 Publications

## Basic Information

<b>Catalog Number:</b> 12266-1-AP	<b>GenBank Accession Number:</b> BC020987	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 133 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 22937	<b>Recommended Dilutions:</b> WB 1:200-1:1000 IHC 1:50-1:500 IF 1:10-1:100
<b>Source:</b> Rabbit	<b>Full Name:</b> SREBF chaperone	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 1279 aa, 140 kDa	
<b>Immunogen Catalog Number:</b> AG2937	<b>Observed MW:</b> 140 kDa, 96 kDa	

## Applications

<b>Tested Applications:</b> IF, IHC, WB, ELISA	<b>Positive Controls:</b> WB : HEK-293 cells, K-562 cells
<b>Cited Applications:</b> WB	<b>IHC :</b> human colon cancer tissue, human lung cancer tissue
<b>Species Specificity:</b> human, mouse	<b>IF :</b> HEK-293 cells,
<b>Cited Species:</b> human, mouse	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

SCAP is a regulatory protein that is required for the proteolytic cleavage of the sterol regulatory element-binding protein (SREBP). SCAP is an integral membrane protein located in the endoplasmic reticulum (ER). One of the cytosolic regions of SCAP contains a hexapeptide amino acid sequence, MELADL, that functions to detect cellular cholesterol. When cholesterol is present, SCAP undergoes a conformational change that prevents it from activating SREBP and cholesterol synthesis does not occur. SCAP has 4 isoforms with MW 140, 98, 96 and 85 kDa (refer to UniProt: Q12770).

## Notable Publications

Author	Pubmed ID	Journal	Application
Liang Wei Wang	31518366	PLoS Pathog	WB
Chong Wee Liew	24843127	Proc Natl Acad Sci U S A	WB
Yang Zhang	31379107	EMBO Rep	WB

## Storage

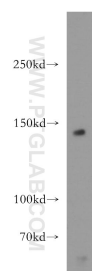
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
 Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

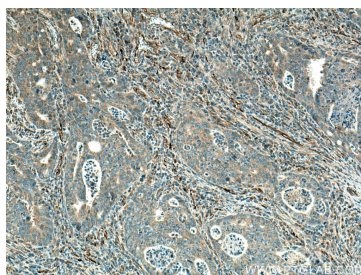
For technical support and original validation data for this product please contact:  
 T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
 E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
 W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

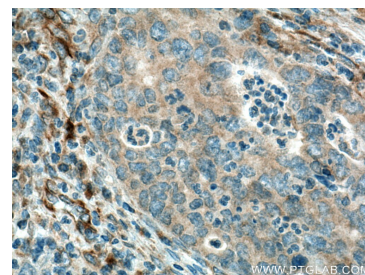
## Selected Validation Data



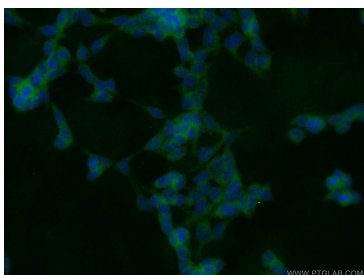
HEK-293 cells were subjected to SDS PAGE followed by western blot with 12266-1-AP (SCAP antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 12266-1-AP (SCAP antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 12266-1-AP (SCAP antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of HEK-293 cells using 12266-1-AP (SCAP antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).