

For Research Use Only

# SCAP Polyclonal antibody

Catalog Number: 12266-1-AP

7 Publications



## Basic Information

### Catalog Number:

12266-1-AP

### Size:

150ul, Concentration: 400 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG2937

### GenBank Accession Number:

BC020987

### GeneID (NCBI):

22937

### UNIPROT ID:

Q12770

### Full Name:

SREBF chaperone

### Calculated MW:

1279 aa, 140 kDa

### Observed MW:

140 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate  
IHC: 1:50-1:500

## Applications

### Tested Applications:

IHC, IP, ELISA

### Cited Applications:

WB

### Species Specificity:

human

### Cited Species:

human, mouse

### Positive Controls:

IP: HEK-293 cells,

IHC: mouse kidney tissue,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## 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
Naohiro Egawa	35568729	Sci 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, pH7.3

Aliquoting is unnecessary for -20°C storage

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

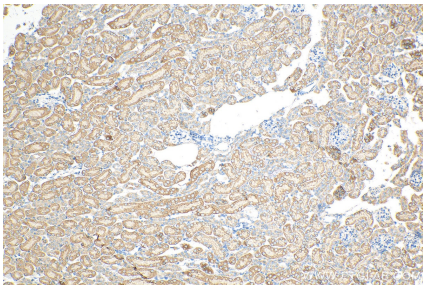
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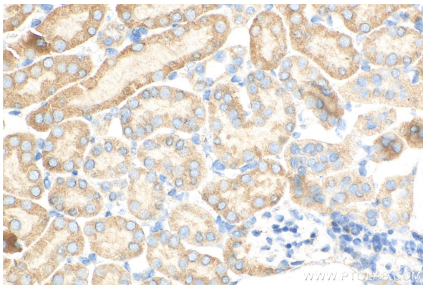
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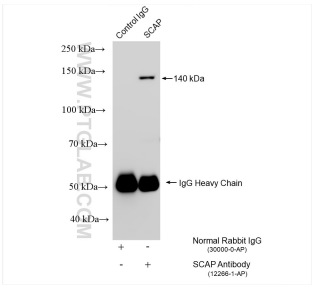
Selected Validation Data



Immunohistochemical analysis of paraffin-embedded mouse kidney 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 mouse kidney 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).



IP result of anti-SCAP (IP:12266-1-AP, 4ug; Detection:12266-1-AP 1:600) with HEK-293 cells lysate 1610 ug.