

**SCAP Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP12299a****Specification**

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**SCAP Antibody (N-term) - Product Information**

Application	WB, FC, IHC-P,E
Primary Accession	<a href="#">Q12770</a>
Other Accession	<a href="#">NP_036367.2</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	54-83

**SCAP Antibody (N-term) - Additional Information****Gene ID** 22937**Other Names**

Sterol regulatory element-binding protein cleavage-activating protein, SCAP, SREBP cleavage-activating protein, SCAP, KIAA0199

**Target/Specificity**

This SCAP antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 54-83 amino acids from the N-terminal region of human SCAP.

**Dilution**

WB~~1:1000  
FC~~1:10~50  
IHC-P~~1:10~50  
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**

SCAP Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**SCAP Antibody (N-term) - Protein Information****Name** SCAP {ECO:0000303|PubMed:10570913, ECO:0000312|HGNC:HGNC:30634}

**Function** Escort protein required for cholesterol as well as lipid homeostasis (By similarity). Regulates export of the SCAP-SREBP complex from the endoplasmic reticulum to the Golgi upon low cholesterol, thereby regulating the processing of sterol regulatory element-binding proteins (SREBPs) SREBF1/SREBP1 and SREBF2/SREBP2 (PubMed:[26311497](#)). At high sterol concentrations, formation of a ternary complex with INSIG (INSIG1 or INSIG2) leads to mask the ER export signal in SCAP, promoting retention of the complex in the endoplasmic reticulum (By similarity). Low sterol concentrations trigger release of INSIG, a conformational change in the SSD domain of SCAP, unmasking of the ER export signal, promoting recruitment into COPII-coated vesicles and transport of the SCAP-SREBP to the Golgi: in the Golgi, SREBPs are then processed, releasing the transcription factor fragment of SREBPs from the membrane, its import into the nucleus and up-regulation of LDLR, INSIG1 and the mevalonate pathway (PubMed:[26311497](#)). Binds cholesterol via its SSD domain (By similarity).

#### Cellular Location

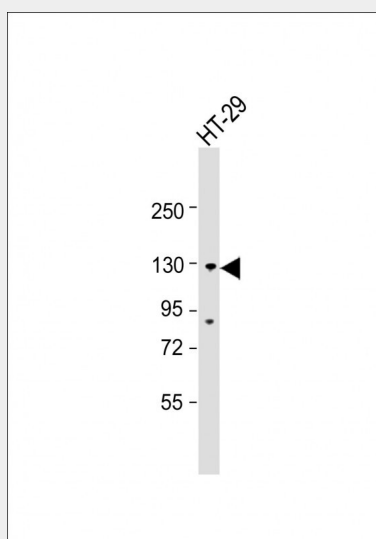
Endoplasmic reticulum membrane; Multi-pass membrane protein. Golgi apparatus membrane; Multi-pass membrane protein. Cytoplasmic vesicle, COPII-coated vesicle membrane {ECO:0000250|UniProtKB:P97260}; Multi-pass membrane protein. Note=Moves from the endoplasmic reticulum to the Golgi in the absence of sterols (PubMed:26311497). Requires the presence of SPRING1 for proper localization to endoplasmic reticulum (PubMed:32111832). {ECO:0000250|UniProtKB:P97260, ECO:0000269|PubMed:26311497, ECO:0000269|PubMed:32111832}

#### SCAP Antibody (N-term) - Protocols

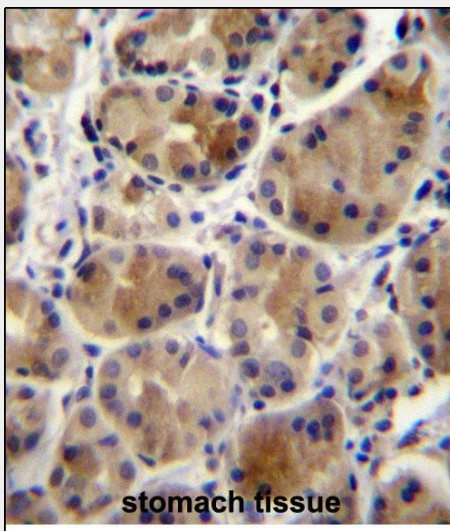
Provided below are standard protocols that you may find useful for product applications.

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

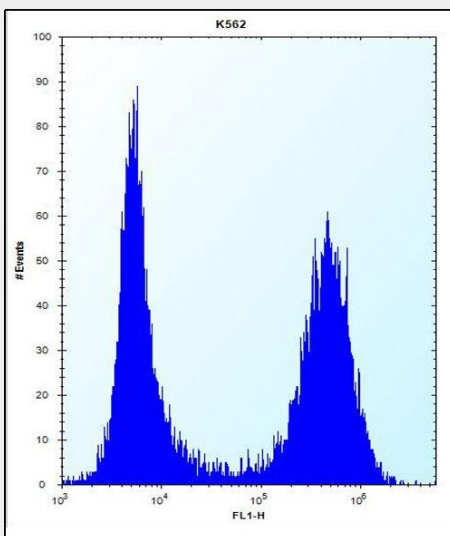
#### SCAP Antibody (N-term) - Images



Anti-SCAP Antibody (N-term) at 1:1000 dilution + HT-29 whole cell lysates/ proteins at 20  $\mu$ g per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 140 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



SCAP Antibody (N-term) (Cat. #AP12299a) immunohistochemistry analysis in formalin fixed and paraffin embedded human stomach tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of SCAP Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



SCAP Antibody (N-term) (Cat. #AP12299a) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated donkey-anti-rabbit secondary antibodies were used for the analysis.

### SCAP Antibody (N-term) - Background

This gene encodes a protein with a sterol sensing domain (SSD) and seven WD domains. In the presence of cholesterol, this protein binds to sterol regulatory element binding proteins (SREBPs) and mediates their transport from the ER to the Golgi. The SREBPs are then proteolytically cleaved and regulate sterol biosynthesis.

### SCAP Antibody (N-term) - References

Vasseur, F., et al. J. Hum. Genet. 55(4):227-231(2010)  
Liu, X., et al. Atherosclerosis 208(2):421-426(2010)  
McGeachie, M., et al. Circulation 120(24):2448-2454(2009)  
Chen, S.N., et al. BMC Med. Genet. 10, 111 (2009) :  
Voora, D., et al. Circ Cardiovasc Genet 1(2):100-106(2008)