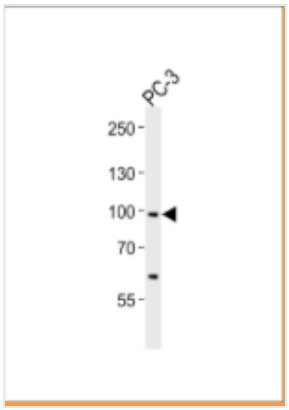
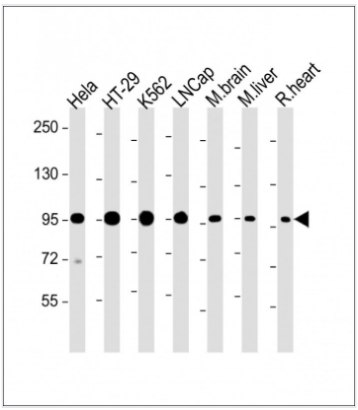
SCAP Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

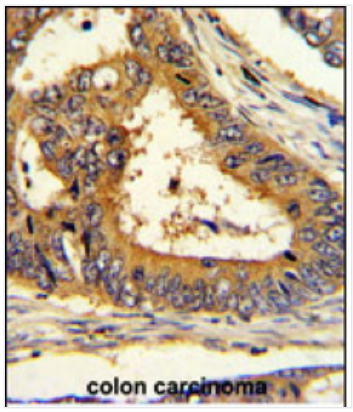
Product Name	SCAP, Polyclonal Antibody
Full Product Name	SCAP (Sterol Regulatory Element-binding Protein Cleavage-activating Protein, SREBP Cleavage-activating Protein, PSEC0227, KIAA0199) (Biotin)
Product Gene Name	anti-SCAP antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Protein A and Peptide Affinity Chromatography.
Specificity	Recognizes human SCAP. Species crossreactivity: mouse, rat
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	95,616 Da
OMIM	601510
3D Structure	ModBase 3D Structure for Q12770
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 604-632 in the central region of human SCAP, Swiss/UniProt Accession: Q12770. Species sequence homology: bovine, porcine
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-SCAP antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-SCAP antibody	Immunohistochemistry (IHC) Paraffin, ELISA (EIA), Flow Cytometry (FC/FACS), Western Blot (WB), Immunofluorescence (IF)
Application Notes for anti-SCAP antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-SCAP antibody	MBS6498506 is an antibody targeting SCAP. Also known as SCAP (Sterol Regulatory Element-binding Protein Cleavage-activating Protein, SREBP Cleavage-activating Protein, PSEC0227, KIAA0199) (Biotin). Reactive in Human, Mouse, Rat. Host: Rabbit.
Product References and Citations for anti-SCAP antibody	1. Lu, Y., et.al., J. Lipid Res. 49(12), 2582-2589 (2008).
Other Notes	Small volumes of anti-SCAP antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



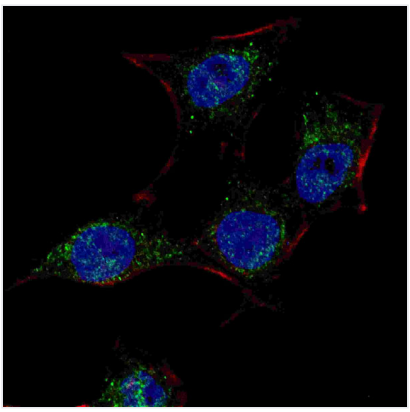
Western Blot (WB) of anti-SCAP antibody
Western Blot analysis of lysate from PC-3 cell line using MBS626672 (1:1000). IgG (HRP) goat anti-rabbit at 1:10,000 dilution was used as the secondary antibody. Lysate at 35ug.



Western Blot (WB) of anti-SCAP antibody
Western Blot using MBS626672 (1:2000) Lane 1: Hela whole cell lysate Lane 2: HT-29 whole cell lysate Lane 3: K562 whole cell lysate Lane 4: LNCap whole cell lysate Lane 5: Mouse brain lysate Lane 6: Mouse liver lysate Lane 7: Rat heart lysate. Lysates/proteins at 20ug/lane. Secondary IgG (HRP) Goat Anti-Rabbit at 1:10,000. Predicted band size : 140, 98, 96kD. Blocking/Dilution buffer: 5% NFDM/TBST.



Immunohistochemistry (IHC) of anti-SCAP antibody
Immunohistochemistry of formalin-fixed, paraffin-embedded human colon carcinoma using MBS626672, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of MBS626672 for immunohistochemistry.



Immunofluorescence (IF) of anti-SCAP antibody
Fluorescent confocal image of HeLa cells using MBS626672. HeLa cells were fixed with 4% PFA (20min), permeabilized with Triton X-100 (0.2%, 30min). Cells were then incubated with MBS626672 (1:100, 2hr at RT). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:1000, 1hr). Nuclei were counterstained with Hoechst 33342 (blue) (10ug/ml, 5min).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SCAP. It may not necessarily be applicable to this product.

NCBI GI #	66932902
NCBI GeneID	22937
NCBI Accession #	NP_036367.2
UniProt Primary Accession #	Q12770
UniProt Secondary Accession #	Q8N2E0; Q8WUA1
UniProt Related Accession #	Q12770
GenBank Nucleotide #	NM_012235.2
NCBI Official Full Name	sterol regulatory element-binding protein cleavage-activating protein
NCBI Official Synonym Full Names	SREBF chaperone
NCBI Official Symbol	SCAP
UniProt Protein Name	Sterol regulatory element-binding protein cleavage-activating protein

Protein Family	Sterol regulatory element-binding protein cleavage-activating protein
UniProt Gene Name	SCAP
UniProt Synonym Gene Names	KIAA0199; SCAP; SREBP cleavage-activating protein
UniProt Entry Name	SCAP_HUMAN
NCBI Protein Information	sterol regulatory element-binding protein cleavage-activating protein; SREBP cleavage-activating protein; sterol regulatory element binding protein cleavage-activating protein
NCBI Summary for SCAP	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. [provided by RefSeq, Jul 2008]
UniProt Comments for SCAP	SCAP: Escort protein required for cholesterol as well as lipid homeostasis. Regulates export of the SCAP/SREBF complex from the ER upon low cholesterol. Formation of a ternary complex with INSIG at high sterol concentrations leads to masking of an ER-export signal in SCAP and retention of the complex in the ER. Low sterol concentrations trigger release of INSIG, a conformational change in the SSC domain of SCAP, unmasking of the ER export signal, recruitment into COPII-coated vesicles, transport to the Golgi complex, proteolytic cleavage of SREBF in the Golgi, release of the transcription factor fragment of SREBF from the membrane, its import into the nucleus and up-regulation of LDLR, INSIG1 and the mevalonate pathway. Belongs to the WD repeat SCAP family. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, multi-pass; Membrane protein, integral Chromosomal Location of Human Ortholog: 3p21.31 Cellular Component: Golgi membrane; Golgi apparatus; endoplasmic reticulum membrane; protein complex; endoplasmic reticulum; integral to membrane Molecular Function: protein binding; unfolded protein binding; cholesterol binding; protein complex binding Biological Process: cholesterol metabolic process; regulation of fatty acid biosynthetic process; response to hypoxia; positive regulation of low-density lipoprotein receptor biosynthetic process; SREBP-mediated signaling pathway; negative regulation of cholesterol biosynthetic process; response to insulin stimulus; aging
Research Articles on SCAP	**1.** Enhanced SCAP glycosylation by inflammation induces macrophage foam cell formation.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-mouse-rat-antibody/scap/6498506