SCAP Antibody		Cell Signaling	
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2	Support:	877-678-TECH (8324)	
#13102	Web:	info@cellsignal.com cellsignal.com	
#	3 Trask Lane   Danvers   Mas	sachusetts   01923   USA	
For Research Use Only. Not for Use in Diagnostic Procedures.			

Applications: W	<b>Reactivity:</b> H R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 130	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #Q12770	Entrez-Gene Id: 22937		
Product Usage Information	2	Application Western Blotting			<b>Dilution</b> 1:1000			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.						
Specificity/Sensitivity		SCAP Antibody recognizes endogenous levels of total SCAP protein.						
<b>Source / Purification</b> Polyclonal antibodies are produced by immunizing animals with a synthetic peptide residues surrounding Gly193 of human SCAP protein. Antibodies are purified by pro affinity chromatography.								
Background		SREBP cleavage activating protein (SCAP) is a membrane-bound protein essential in regulating sterol regulatory element-binding protein (SREBP) processing (1). In cholesterol-starved cells, SREBPs move from the ER to the Golgi apparatus with the help of SCAP, where the precursor SREBPs are cleaved by site-1 (S1P) and site-2 (S2P) proteases (1,2). Released SREBP amino-terminal domains enter the nucleus and bind to sterol response elements located in the promoters of a number of genes responsible for the cholesterol synthesis (1,2). Research studies show that the SCAP/SREBP pathway is critical for diabetic fatty liver development and carbohydrate-induced hypertriglyceridemia in mice (3). In addition, the SCAP/SREBP pathway is required to protect cancer cells from lipotoxicity (4).						
Background R	eferences	1. Brown, M.S. and Goldstein, J.L. (1997) <i>Cell</i> 89, 331-40. 2. Horton, J.D. et al. (2002) <i>J Clin Invest</i> 109, 1125-31. 3. Moon, Y.A. et al. (2012) <i>Cell Metab</i> 15, 240-6. 4. Williams, K.J. et al. (2013) <i>Cancer Res</i> 73, 2850-62.						
Species Reacti	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot B	Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications K	ley	W: Western Blotting						
Cross-Reactivi	ty Key	H: Human R: Rat						
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