

SCAP Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H R	Sensitivity: Endogenous	MW (kDa): 130	Source/Isotype: Rabbit	UniProt ID: #Q12770	Entrez-Gene Id: 22937	
Product Usage Information		Application Western Blotting	Dilution 1:1000				
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/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.					
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly193 of human SCAP protein. Antibodies are purified by protein A and peptide 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 References		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 Reactivity		Species reactivity is determined by testing in at least one approved application (e.g., western blot).					
Western Blot 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 Key		W: Western Blotting					
Cross-Reactivity Key		H: Human R: Rat					
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