

Datasheet for ABIN654630

anti-SREBF2 antibody (AA 399-427)



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3 Images

Overview

Quantity:	400 µL
Target:	SREBF2
Binding Specificity:	AA 399-427
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SREBF2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This SREBF2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 399-427 amino acids from the Central region of human SREBF2.
Clone:	RB24513
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	SREBF2
Alternative Name:	SREBF2 (SREBF2 Products)

Target Details

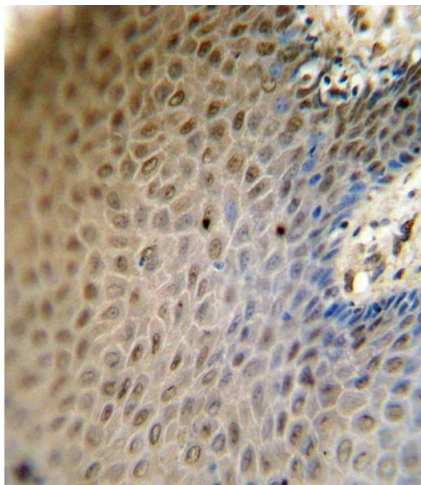
Background:	SREBPs, including SREBP-1a, SREBP-1c, and SREBP-2, constitute a family of basic helix-loop-helix (bHLH) transcription factors that play a critical role in lipid homeostasis by regulating genes involved in cholesterol and fatty acid metabolism. Each SREBP consists of three domains, including an amino-terminal transcription factor domain of ~480 amino acids, a middle hydrophobic region of ~80 amino acids containing two hydrophobic transmembrane segments, and a carboxy-terminal regulatory domain of ~590 amino acids. SREBP-2 regulates cholesterol synthesis by activating the transcription of genes for HMG-CoA reductase and other enzymes of the cholesterol synthetic pathway. SREBP-2 is ubiquitously detected in various tissues. Under basal conditions SREBP is bound to ER membranes as a glycosylated precursor protein. Upon cholesterol depletion, the protein is cleaved to its active forms (about 50-68 kDa) and translocated into the nucleus to stimulate transcription of genes involved in the uptake and synthesis of cholesterol.
Molecular Weight:	123688
Gene ID:	6721
NCBI Accession:	NP_004590
UniProt:	Q12772
Pathways:	Regulation of Lipid Metabolism by PPARalpha

Application Details

Application Notes:	IF: 1:10~50. WB: 1:1000. IHC-P: 1:10~50
Restrictions:	For Research Use only

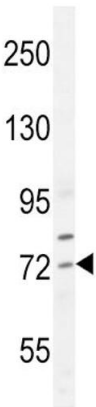
Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.



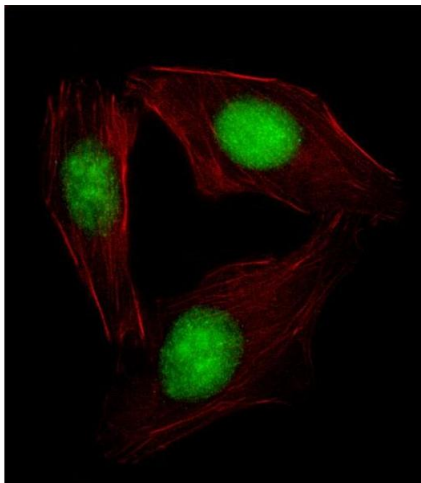
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. SREBF2 antibody (Center) (ABIN654630 and ABIN2844326) immunohistochemistry analysis in formalin fixed and paraffin embedded human skin carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the SREBF2 antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



Western Blotting

Image 2. SREBF2 Antibody (Center) (ABIN654630 and ABIN2844326) western blot analysis in HepG2 cell line lysates (35 µg/lane). This demonstrates the SREBF2 antibody detected the SREBF2 protein (arrow).



Immunofluorescence

Image 3. Fluorescent image of cell stained with SREBF2 Antibody (Center) (ABIN654630 and ABIN2844326). cells were fixed with 4 % PFA (20 min), permeabilized with Triton X-100 (0.1 %, 10 min), then incubated with SREBF2 primary antibody (1:25, 1 h at 37 °C). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37 °C). Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7 units/mL, 1 h at 37 °C). SREBF2 immunoreactivity is localized to Nucleus and Nucleolus significantly.