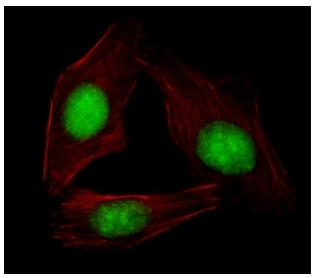
SREBP2 Antibody (F40837)

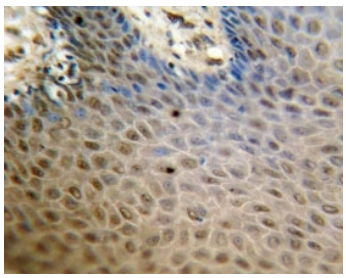
Catalog No.	Formulation	Size
F40837-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F40837-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

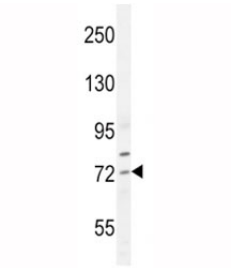
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	Q12772
Applications	Immunofluorescence : 1:10-1:50 Western Blot : 1:1000 IHC (Paraffin) : 1:10-1:50
Limitations	This SREBP2 antibody is available for research use only.



Fluorescent image of U251 cells stained with SREBP2 antibody. Alexa Fluor 488 conjugated secondary (green) was used. Cytoplasmic actin was counterstained with Alexa Fluor 555 (red) conjugated Phalloidin.



SREBP2 antibody immunohistochemistry analysis in formalin fixed and paraffin embedded human skin carcinoma.



SREBP2 antibody western blot analysis in HepG2 lysate

Description

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.

Application Notes

Titration of the SREBP2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 399-427 from the human protein was used as the immunogen for this SREBP2 antibody.

Storage

Aliquot the SREBP2 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.