

## Datasheet for ABIN954950 anti-SREBF2 antibody (Middle Region)

### 3 Images

[Go to Product page](#)

#### Overview

Quantity:	0.4 mL
Target:	SREBF2
Binding Specificity:	AA 402-431, Middle Region
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)), Enzyme Immunoassay (EIA)

#### Product Details

Immunogen:	Synthetic peptide - KLH conjugated - corresponding to the central region (between 402-431aa) of human SREBF2 / SREBP2
Isotype:	Ig Fraction
Specificity:	This antibody recognizes SREBF2 / SREBP2.
Cross-Reactivity (Details):	Species reactivity (tested):Human
Purification:	Purified through a Protein A column followed by peptide affinity purification

#### Target Details

Target:	SREBF2
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## Target Details

Alternative Name: SREBF2 / SREBP2 ([SREBF2 Products](#))

**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. LS-B1609 polyclonal antibody detects both precursor and active forms of the protein in tissues and cells such as liver, brown fat, testis, Hep-G2 cells, and human fibroblast. The apparent molecular weight on SDS-PAGE may be higher than the calculated molecular weight (about 126 kDa) due to glycosylation of the protein. Synonyms: BHLHD2, Class D basic helix-loop-helix protein 2, SREBP-2, Sterol regulatory element-binding protein 2, Sterol regulatory element-binding transcription factor 2

Gene ID: 6721

NCBI Accession: [NP\\_004590](#)

Pathways: [Regulation of Lipid Metabolism by PPARalpha](#)

## Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

## Handling

Format: Liquid

Concentration: 0.25 mg/mL

Buffer: 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

## Handling

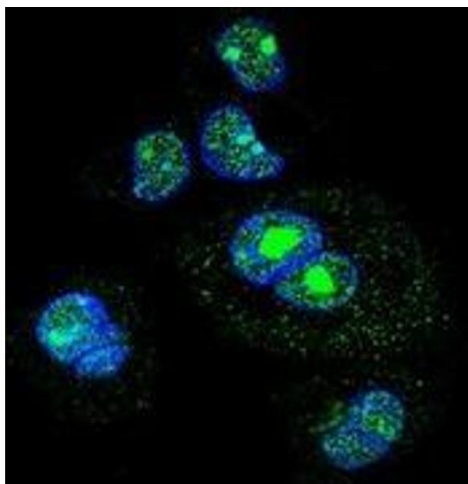
should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

Storage Comment: Store undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.

## Images



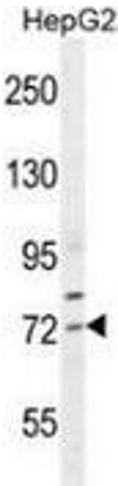
### Immunofluorescence

**Image 1.** Confocal immunofluorescent analysis with HepG2 cells using SREBF2 / SREBP2 Antibody , followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).



### Immunohistochemistry (Paraffin-embedded Sections)

**Image 2.** Immunohistochemistry analysis in human skin carcinoma, followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the SREBF2 antibody for IHC; Clinical relevance has not been evaluated.



Western Blotting

**Image 3.** Western blot analysis in HepG2 cell line lysates (35ug/lane) using SREBF2 / SREBP2 Antibody . This demonstrates the SREBF2 antibody detected the SREBF2 protein (arrow).