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Product datasheet

Anti-SREBP1 antibody ab28481

10 Abreviews 118 References 画像数 5

製品の概要

製品名	Anti-SREBP1 antibody
製品の詳細	Rabbit polyclonal to SREBP1
由来種	Rabbit
アプリケーション	**適用あり:** ICC/IF, WB
種交差性	**交差種:** Mouse, Rat, Human
免疫原	Synthetic peptide corresponding to Mouse SREBP1 aa 32-47. Sequence: MLQLINNQDSDFPGLF Database link: **Q9WTN3** (Peptide available as **ab31099**) Run BLAST with Run BLAST with
ポジティブ・コントロール	ICC/IF: Human HepG2 cells, mouse NIH-3T3, C2C12 cells; WB: mouse and rat liver, MCF-7 and MDA-MB-231 cell lysates
特記事項	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
バッファー	Preservative: 0.05% Sodium azide Constituents: PBS, 0.1% BSA
精製度	Immunogen affinity purified
ポリ/モノ	ポリクローナル
アイソタイプ	IgG

アプリケーション

The Abpromise guarantee **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab28481の使用に適用されます

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
ICC/IF	★★★☆☆ (2)	1/50 - 1/500.
WB	★★★☆☆ (4)	1/500 - 1/5000. Detects an ~68 and 120 kDa protein representing SREBP1 in mouse and rat liver samples as well as rat kidney samples. A predominant band at ~68 kDa (active cleaved site) is seen and a band at ~120 kDa (inactive precursor) may not be seen or it may be diminished.

ターゲット情報

機能

Transcriptional activator required for lipid homeostasis. Regulates transcription of the LDL receptor gene as well as the fatty acid and to a lesser degree the cholesterol synthesis pathway (By similarity). Binds to the sterol regulatory element 1 (SRE-1) (5'-ATCACCCCAC-3'). Has dual sequence specificity binding to both an E-box motif (5'-ATCACGTGA-3') and to SRE-1 (5'-ATCACCCCAC-3').

組織特異性

Expressed in a wide variety of tissues, most abundant in liver and adrenal gland. In fetal tissues lung and liver shows highest expression. Isoform SREBP-1C predominates in liver, adrenal gland and ovary, whereas isoform SREBP-1A predominates in hepatoma cell lines. Isoform SREBP-1A and isoform SREBP-1C are found in kidney, brain, white fat, and muscle.

配列類似性

Belongs to the SREBP family.
Contains 1 basic helix-loop-helix (bHLH) domain.

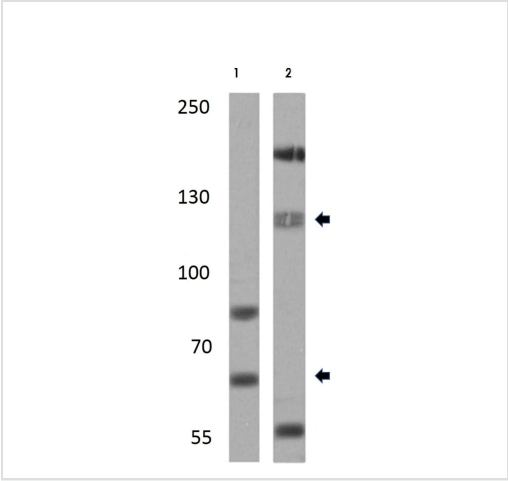
翻訳後修飾

At low cholesterol the SCAP/SREBP complex is recruited into COPII vesicles for export from the ER. In the Golgi complex SREBPs are cleaved sequentially by site-1 and site-2 protease. The first cleavage by site-1 protease occurs within the luminal loop, the second cleavage by site-2 protease occurs within the first transmembrane domain and releases the transcription factor from the Golgi membrane. Apoptosis triggers cleavage by the cysteine proteases caspase-3 and caspase-7.
Phosphorylated by AMPK, leading to suppress protein processing and nuclear translocation, and repress target gene expression. Phosphorylation at Ser-402 by SIK1 represses activity possibly by inhibiting DNA-binding.

細胞内局在

Nucleus and Endoplasmic reticulum membrane. Golgi apparatus membrane. Cytoplasmic vesicle > COPII-coated vesicle membrane. Moves from the endoplasmic reticulum to the Golgi in the absence of sterols.

画像



Western blot - Anti-SREBP1 antibody (ab28481)

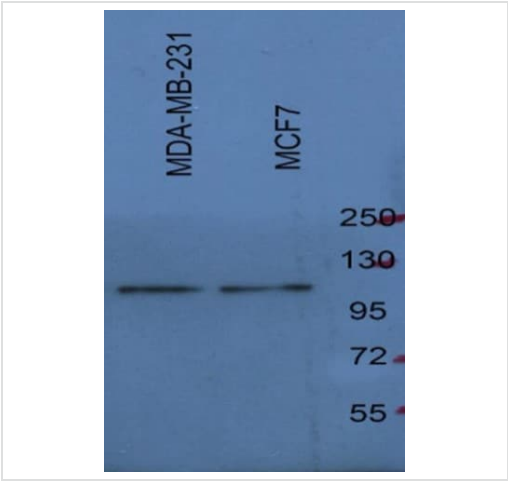
All lanes : Anti-SREBP1 antibody (ab28481) at 1/1000 dilution

Lane 1 : Mouse liver lysate
Lane 2 : Rat liver lysate

Lysates/proteins at 25 µg per lane.

Secondary
All lanes : HRP-conjugated secondary antibody

Developed using the ECL technique.



Western blot - Anti-SREBP1 antibody (ab28481)

All lanes : Anti-SREBP1 antibody (ab28481) at 1/1000 dilution

Lane 1 : MDA-MB-231 cell lysate with Fat-free milk / PBST
Lane 2 : MCF-7 cell lysate with Fat-free milk / PBST

Lysates/proteins at 20 µg per lane.

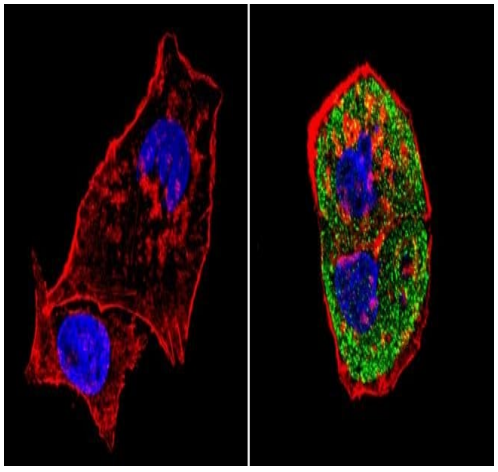
Blocking peptides at 5 % per lane.

Secondary
All lanes : Goat anti-rabbit IgG-HRP at 1/5000 dilution

Developed using the ECL technique.

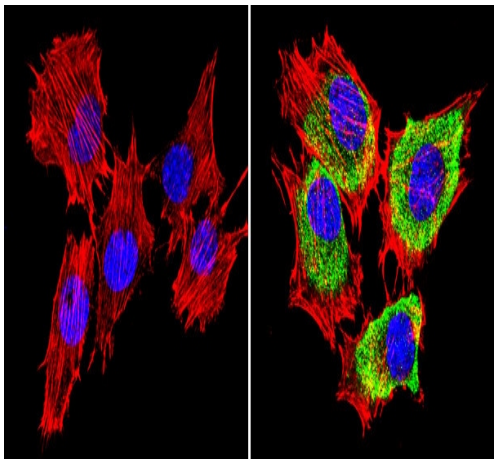
Observed band size: 120 kDa

Western blot analysis on a 4-8% SDS-PAGE gel.



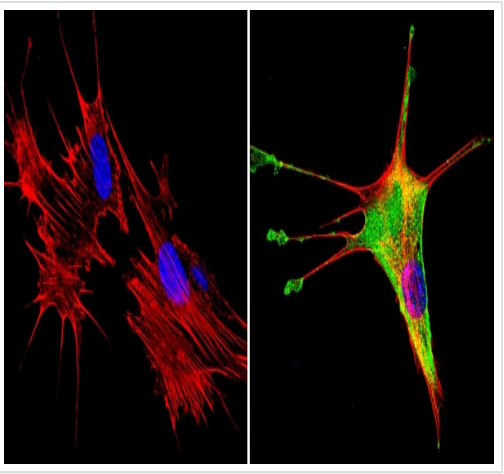
Immunocytochemistry/ Immunofluorescence - Anti-SREBP1 antibody (ab28481)

Immunocytochemical analysis of formalin-fixed HepG2 cells (human liver hepatocellular carcinoma cell line) using immunofluorescence to label SREBP1 with ab28481 at a concentration of 1/100 in 3% BSA-PBS and incubated overnight in a humid environment at 4°C. Prior to labelling, cells were permeablised with 0.1% Triton X-100 in TBS for between 5 and 10 minutes, they were subsequently blocked with 3% BSA-PBS for 30 minutes at room temperature. The secondary used was a DyLight® conjugate (green) and was incubated at room temperature in the dark. The cells were counterstained with DAPI against DNA labelling the nucear compartments blue and a red fluorescent phalloidin stain against F-Actin. Magnification was 60X
The left image is a negative control in the absence of ab28481, the right image is in the prescence of ab28481, the secondary and counterstains.



Immunocytochemistry/ Immunofluorescence - Anti-SREBP1 antibody (ab28481)

Immunocytochemical analysis of formalin-fixed C2C12 cell lines using immunofluorescence to label SREBP1 with ab28481 at a concentration of 1/100 in 3% BSA-PBS and incubated overnight in a humid environment at 4°C. Prior to labelling, cells were permeablised with 0.1% Triton X-100 in TBS for between 5 and 10 minutes, they were subsequently blocked with 3% BSA-PBS for 30 minutes at room temperature. The secondary used was a DyLight® conjugate (green) and was incubated at room temperature in the dark. The cells were counterstained with DAPI against DNA labelling the nucear compartments blue and a red fluorescent phalloidin stain against F-Actin. Magnification was 60X
The left image is a negative control in the absence of ab28481, the right image is in the prescence of ab28481, the secondary and counterstains.



Immunocytochemistry/ Immunofluorescence - Anti-SREBP1 antibody (ab28481)

Immunocytochemical analysis of formalin-fixed NIH 3T3 cell lines using immunofluorescence to label SREBP1 with ab28481 at a concentration of 1/100 in 3% BSA-PBS and incubated overnight in a humid environment at 4°C. Prior to labelling, cells were permeablised with 0.1% Triton X-100 in TBS for between 5 and 10 minutes, they were subsequently blocked with 3% BSA-PBS for 30 minutes at room temperature. The secondary used was a DyLight® conjugate (green) and was incubated at room temperature in the dark. The cells were counterstained with DAPI against DNA labelling the nucear compartments blue and a red fluorescent phalloidin stain against F-Actin. Magnification is 60X
The left image is a negative control in the absence of ab28481, the right image is in the prescence of ab28481, the secondary and counterstains.

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