abcam

Product datasheet

Anti-SCD1 antibody ab39969

KO 評価済

★★★★★ 1 Abreviews 18 References 画像数 4

製品の概要

製品名	Anti-SCD1 antibody
製品の詳細	Rabbit polyclonal to SCD1
由来種	Rabbit
特異性	From Jan 2024, QC testing of replenishment batches of this polyclonal changed. All tested and expected application and reactive species combinations are still covered by our Abcam product promise. However, we no longer test all applications. For more information on a specific batch, please contact our Scientific Support who will be happy to help. You may also be interested in our alternative recombinant antibody, **ab236868**.
アプリケーション	**適用あり:** ICC, WB
種交差性	**交差種:** Human **交差が予測される動物種:** Mouse, Pig
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: HeLa, HepG2 and HEK293 cell lysates. ICC: HeLa cells.
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. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
バッファー	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS

Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.

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ab39969の使用に適用されます**

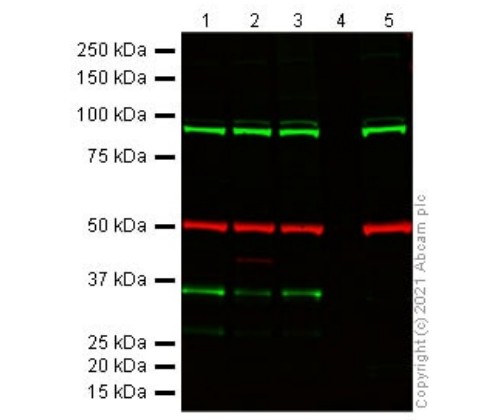
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
ICC		Use a concentration of 5 µg/ml.
WB	★★★★★ (1)	Use a concentration of 2 µg/ml. Detects a band of approximately 37 kDa (predicted molecular weight: 41.5 kDa).

ターゲット情報

機能	Terminal component of the liver microsomal stearyl-CoA desaturase system, that utilizes O(2) and electrons from reduced cytochrome b5 to catalyze the insertion of a double bond into a spectrum of fatty acyl-CoA substrates including palmitoyl-CoA and stearoyl-CoA.
配列類似性	Belongs to the fatty acid desaturase family.
ドメイン	The histidine box domains may contain the active site and/or be involved in metal ion binding.
細胞内局在	Endoplasmic reticulum membrane.

画像



Western blot - Anti-SCD1 antibody (ab39969)

All lanes : Anti-SCD1 antibody (ab39969) at 1 µg/ml

Lane 1 : HepG2 (human liver hepatocellular carcinoma cell line) whole cell lysate at 20 µg

Lane 2 : HEK-293 (human epithelial cell line from embryonic kidney) whole cell lysate at 20 µg

Lane 3 : Wild-type HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate at 20 µg

Lane 4 : Empty Lane

Lane 5 : SCD knockout HeLa whole cell lysate at 20 µg

Secondary

All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW)

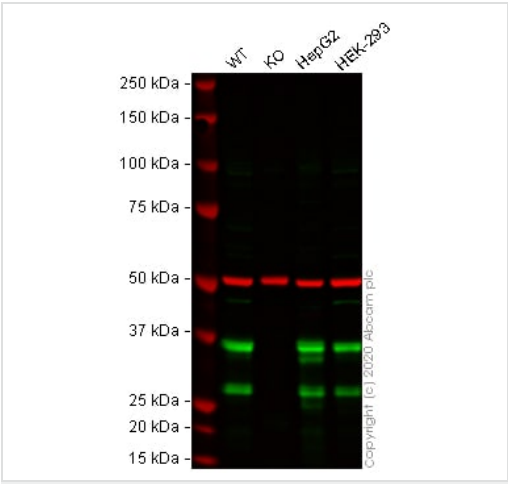
preadsorbed at 1/10000 dilution

Performed under reducing conditions.

Predicted band size: 41.5 kDa
Observed band size: 36 kDa
Additional bands at: 95 kDa. We are unsure as to the identity of these extra bands.

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 3% Milk before being incubated with ab39969 overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to IRDye® 800CW (green).

Loading control: alpha Tubulin **ab7291** at 0.1 µg/mL visualised using a Goat anti-Mouse IgG H&L (IRDye® 680RD, red).



Western blot - Anti-SCD1 antibody (ab39969)

All lanes : Anti-SCD1 antibody (ab39969) at 2 µg/ml

Lane 1 : Wild-type HeLa cell lysate
Lane 2 : SCD knockout HeLa cell lysate
Lane 3 : HepG2 cell lysate
Lane 4 : HEK-293 cell lysate

Lysates/proteins at 20 µg per lane.

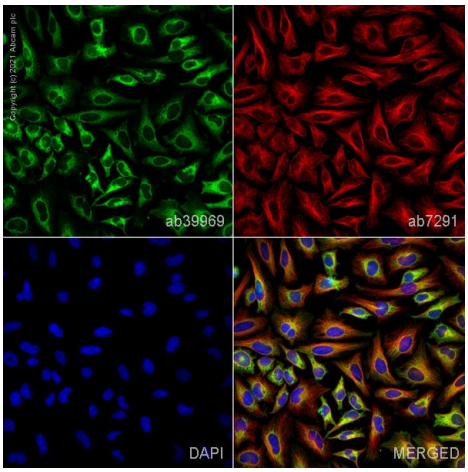
Performed under reducing conditions.

Predicted band size: 41.5 kDa
Observed band size: 36 kDa

Lanes 1 - 4: Merged signal (red and green). Green - ab39969 observed at 36 kDa. Red - loading control **ab7291** (Mouse anti-Alpha Tubulin [DM1A]) observed at 55kDa.

ab39969 was shown to react with SCD1 in wild-type HeLa cells in western blot with loss of signal observed in SCD1 knockout cell line **ab265220** (SCD1 knockout cell lysate **ab257658**). Wild-type and SCD1 knockout HeLa cell lysates were subjected to SDS-PAGE.

Membranes were blocked in 3% milk in TBS-T (0.1% Tween®) before incubation with ab39969 and **ab7291** (Mouse anti-Alpha Tubulin [DM1A]) overnight at 4°C at 2 µg/ml and a 1 in 20000 dilution respectively. Blots were incubated with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.

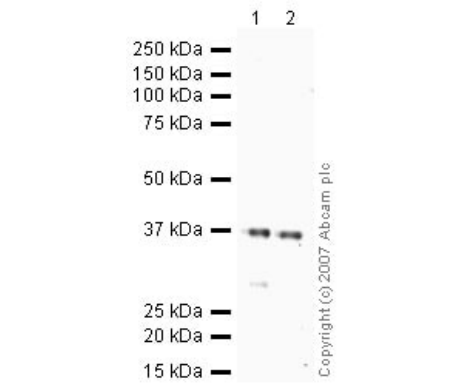


Immunocytochemistry - Anti-SCD1 antibody (ab39969)

ab39969 staining SCD1 in HeLa cells. The cells were fixed with 100% methanol (5 min), permeabilized with 0.1% PBS-Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated overnight at 4°C with ab39969 at 5 µg/ml and **ab7291**, Mouse monoclonal [DM1A] to alpha Tubulin - Loading Control. Cells were then incubated with **ab150081**, Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 488), pre-adsorbed at 1/1000 dilution (shown in green) and **ab150120**, Goat polyclonal Secondary Antibody to Mouse IgG - H&L (Alexa Fluor® 594), pre-adsorbed at 1/1000 dilution (shown in pseudocolour red). Nuclear DNA was labelled with DAPI (shown in blue).

Also suitable in cells fixed with 4% paraformaldehyde (10 min).

Image was acquired with a high-content analyser (Operetta CLS, Perkin Elmer) and a maximum intensity projection of confocal sections is shown.



Western blot - Anti-SCD1 antibody (ab39969)

All lanes : Anti-SCD1 antibody (ab39969) at 2 µg/ml

Lane 1 : HEK293 (Human embryonic kidney cell line) Whole Cell Lysate
Lane 2 : HepG2 (Human hepatocellular liver carcinoma cell line) Whole Cell Lysate

Lysates/proteins at 15 µg per lane.

Secondary
All lanes : Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

Performed under reducing conditions.

Predicted band size: 41.5 kDa
Observed band size: 37 kDa

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