abcam

Product datasheet

Human SCD (SCD1) knockout HeLa cell lysate ab257658

7 图像

概述

产品名称	人SCD (SCD1) knockout HeLa cell裂解物
产品概述	Knockout cell lysate achieved by CRISPR/Cas9.
Parental Cell Line	HeLa
Organism	Human
Mutation description	Knockout achieved by using CRISPR/Cas9, 4 bp deletion in exon3 and Insertion of the selection cassette in exon3.
Passage number	<20
Knockout validation	Sanger Sequencing, Western Blot (WB)
Reconstitution notes	To use as WB control, resuspend the lyophilizate in 50 µL of LDS* Sample Buffer to have a final concentration of 2 mg/ml. For reducing conditions, we recommend a final concentration of 0.1 M DTT. **Usage of SDS sample buffer is not recommended with these lyophilized lysates.*
说明	**Lysate preparation:** Our lysates are made using RIPA buffer to which we add a protease inhibitor cocktail and phosphatase inhibitor cocktail (ratio: 300:100:10). *This means that the protein of interest is denatured.* If you require a native form of the protein please use the live cell version - found **here**. Please refer to our lysis protocol for further details on how our lysates are prepared. **User storage instructions:** Lyophilizate may be stored at 4°C. After reconstitution, store at -20°C for short-term storage or -80°C for long-term storage. Access thousands of knockout cell lysates, generated from commonly used cancer cell lines. **See here for more information on knockout cell lysates.** Abcam has not and does not intend to apply for the REACH Authorisation of customers' uses of products that contain European Authorisation list (Annex XIV) substances. It is the responsibility of our customers to check the necessity of application of REACH Authorisation, and any other relevant authorisations, for their intended uses. This product is subject to limited use licenses from The Broad Institute, ERS Genomics Limited and Sigma-Aldrich Co. LLC, and is developed with patented technology. For full details of the licenses and patents please refer to our **limited use license** and **patent pages**.
经测试应用	**适用于:** WB

性能

存放说明	Store at -80°C. Please refer to protocols.

组件	1 kit
ab262177 - Human SCD knockout HeLa cell lysate	1 x 100µg
ab255929 - Human wild-type HeLa cell lysate	1 x 100µg

Cell type	epithelial
Disease	Adenocarcinoma
Gender	Female
STR Analysis	Amelogenin X D5S818: 11, 12 D13S317: 12, 13.3 D7S820: 8, 12 D16S539: 9, 10 vWA: 16, 18 TH01: 7 TPOX: 8,12 CSF1PO: 9, 10

靶标

功能	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.
序列相似性	Belongs to the fatty acid desaturase family.
结构域	The histidine box domains may contain the active site and/or be involved in metal ion binding.
细胞定位	Endoplasmic reticulum membrane.

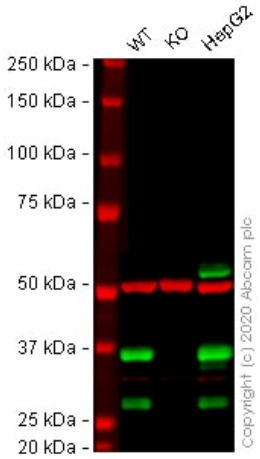
应用

The Abpromise guarantee Abpromise™承诺保证使用ab257658于以下的经测试应用

"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		Use at an assay dependent concentration. Predicted molecular weight: 42 kDa.

图片



Western blot - Human SCD (SCD1) knockout HeLa cell lysate (ab257658)

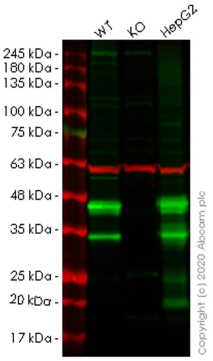
Lane 1: Wild-type HeLa cell lysate 20 ug

Lane 2: SCD knockout HeLa cell lysate 20 ug

Lane 3: HepG2 cell lysate 20 ug

Lanes 1 - 3: Merged signal (red and green). Green - **ab19862** observed at 36 kDa. Red - loading control, **ab2866** (Rabbit anti-alpha Tubulin antibody [EP1332Y]) observed at 55kDa.

ab19862 was shown to react with SCD1 in wild-type HeLa cells in western blot with loss of signal observed in SCD knockout cell line **ab262177** (SCD knockout cell lysate ab257658). HeLa wild-type and SCD knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3% milk in TBS-T (0.1% Tween®) before incubation with **ab19862** and **ab2866** (Rabbit anti-alpha Tubulin antibody [EP1332Y]) overnight at 4˚C at a 1 in 1000 Dilution and a 1 in 20000 dilution respectively. Blots were incubated with Goat anti-Mouse IgG H&L (IRDye® 800CW) preabsorbed (**ab216772**) and Goat anti-Rabbit IgG H&L (IRDye® 680RD) preabsorbed (**ab216777**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Western blot - Human SCD knockout HeLa cell lysate (ab257658)

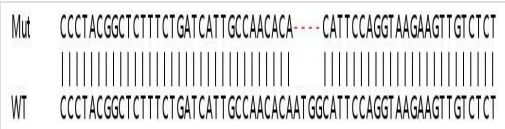
Lane 1: Wild-type HeLa cell lysate (20 ug)

Lane 2: SCD knockout HeLa cell lysate (20 ug)

Lane 3: HepG2 cell lysate (20 ug)

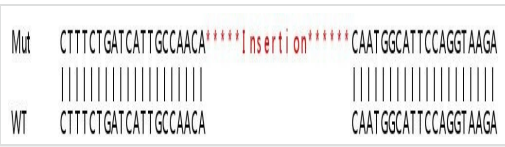
Lanes 1-3: Merged signal (red and green). Green - **ab236868**. Red - loading control **ab8245** observed at 50 kDa.

ab236868 Anti-SCD1 antibody [EPR21963] was shown to specifically react with SCD1 in wild-type HeLa cells. Loss of signal was observed when knockout cell line **ab265220** (knockout cell lysate ab257658) was used. Wild-type and SCD1 knockout samples were subjected to SDS-PAGE. **ab236868** and Anti-tubulin antibody [DM1A] - Loading Control (**ab7291**) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 10000 dilution for 1 hour at room temperature before imaging.



Sanger Sequencing - Human SCD knockout HeLa cell lysate (ab257658)

Allele-1: 4 bp deletion in exon3

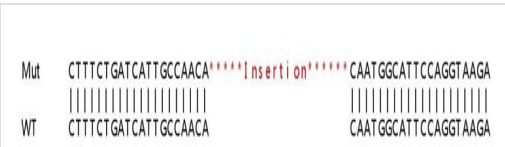


Sanger Sequencing - Human SCD knockout HeLa cell lysate (ab257658)

Allele-2: 4 bp deletion in exon3

Sanger Sequencing - Human SCD knockout HeLa cell lysate (ab257658)

Allele-3: 4 bp deletion in exon3



Sanger Sequencing - Human SCD knockout HeLa cell lysate (ab257658)

Allele-4: Insertion of the selection cassette in exon3

Sanger Sequencing - Human SCD knockout HeLa cell lysate (ab257658)

Allele-5: Insertion of the selection cassette in exon3

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