

Human VCAM1 knockout A549 cell lysate ab275504

3 图像

概述

产品名称	人VCAM1 knockout A549 cell裂解物
产品概述	Knockout cell lysate achieved by CRISPR/Cas9. Treatments: Human VCAM1 knockout A549 cell lysate - Untreated Human wild-type A549 cell lysate - Untreated Human VCAM1 knockout A549 cell lysate - TNF-a (10 ng/ml, 16h) Human wild-type A549 cell lysate - TNF-a (10 ng/ml, 16h)
Parental Cell Line	A549
Organism	Human
Mutation description	Knockout achieved by using CRISPR/Cas9, Homozygous: 4 bp deletion in exon 2
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. <i>*Usage of SDS sample buffer is not recommended with these lyophilized lysates.</i>

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.](#)

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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
ab277498 - Human VCAM1 knockout A549 cell lysate - TNF-alpha treated	1 x 100µg
ab277312 - Human VCAM1 knockout A549 cell lysate	1 x 100µg
ab277499 - Human wild-type A549 cell lysate - TNF-alpha treated	1 x 100µg
ab277305 - Human wild-type A549 cell lysate	1 x 100µg

Cell type

epithelial

Disease

Carcinoma

Gender

Male

靶标

功能

Important in cell-cell recognition. Appears to function in leukocyte-endothelial cell adhesion. Interacts with the beta-1 integrin VLA4 on leukocytes, and mediates both adhesion and signal transduction. The VCAM1/VLA4 interaction may play a pathophysiologic role both in immune responses and in leukocyte emigration to sites of inflammation.

组织特异性

Expressed on inflamed vascular endothelium, as well as on macrophage-like and dendritic cell types in both normal and inflamed tissue.

序列相似性

Contains 7 Ig-like C2-type (immunoglobulin-like) domains.

结构域

Either the first or the fourth Ig-like C2-type domain is required for VLA4-dependent cell adhesion.

翻译后修饰

Sialoglycoprotein.

细胞定位

Membrane.

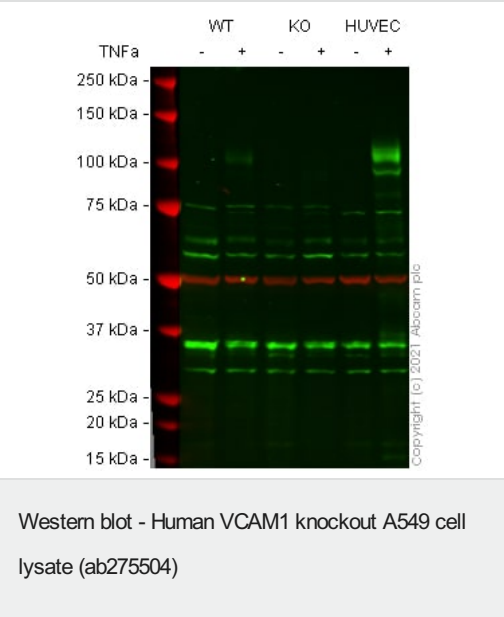
应用

The Abpromise guarantee

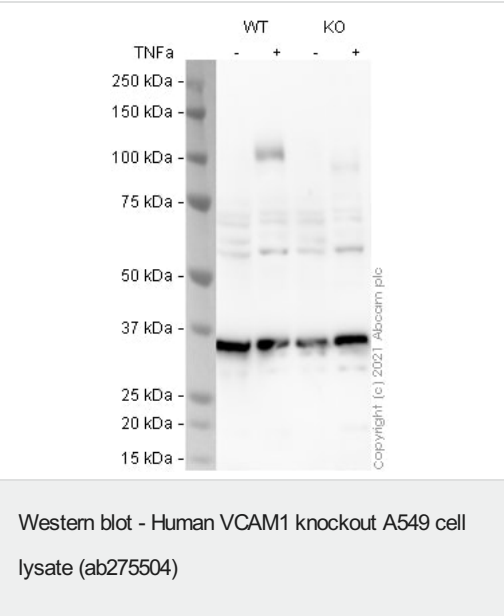
Abpromise™承诺保证使用ab275504于以下的经测试应用

“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.



Lane 1: Wild-type A549 cell lysate 30 ug
Lane 2: Wild-type A549 TNF-a treated (10 ng/mL, 16h) cell lysate 30 ug
Lane 3: VCAM1 knockout A549 cell lysate 30 ug
Lane 4: VCAM1 knockout A549 TNF-a treated (10 ng/mL, 16h) cell lysate 30 ug
Lane 5: HUVEC cell lysate 30 ug
Lane 6: HUVEC TNF-a treated (16 ng/mL, 16h) cell lysate 30 ug
Lanes 1 - 6: Merged signal (red and green). Green - [ab134047](#) observed at 105 kDa. Red - loading control [ab7291](#) (Mouse anti-Alpha Tubulin [DM1A]) observed at 55kDa.
[ab134047](#) was shown to react with VCAM1 in wild-type A549 cells in Western blot with loss of signal observed in VCAM1 knockout cell line [ab273758](#) (knockout cell lysate ab275504). Wild-type A549 and VCAM1 knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3 % milk in TBS-T (0.1 % Tween®) before incubation with [ab134047](#) and [ab7291](#) (Mouse anti-Alpha Tubulin [DM1A]) overnight at 4 °C at a 1 in 2000 dilution and a 1 in 20000 dilution respectively. Blots were incubated with HRP conjugated Goat anti-Rabbit (H+L) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed ([ab216776](#)) secondary antibodies at 1 in 20000 dilution for 1 h at room temperature before imaging.



Lane 1: Wild-type A549 cell lysate 30 ug
Lane 2: Wild-type A549 TNF-a treated (10 ng/mL, 16h) cell lysate 30 ug
Lane 3: VCAM1 knockout A549 cell lysate 30 ug
Lane 4: VCAM1 knockout A549 TNF-a treated (10 ng/mL, 16h) cell lysate 30 ug
Lanes 1: Wild-type HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate, 20 ug
Lanes 2: GPX4 knockout HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate, 20 ug
Lanes 3: Jurkat (Human T cell leukemia cell line from peripheral blood) whole cell lysate, 20 ug
Lanes 3: Hep G2 (Human liver hepatocellular carcinoma cell line) whole cell lysate, 20 ug
[ab174279](#) was shown to react with VCAM1 in treated wild-type A549 cells in western blot. Loss of signal was observed when treated VCAM1 knockout cell line [ab273758](#) (knockout cell lysate ab275504) was used. Membranes were blocked in 3 % milk in TBS-T (0.1 % Tween®) before incubation with [ab174279](#) overnight

at 4 °C at a 1 in 1000 dilution. Blots were incubated with HRP conjugated Goat anti-Rabbit (H+L) secondary antibody at 1 in 5000 for 1 hour at room temperature before development with Optiblot ECL reagent ([ab133456](#)) and imaging.

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WT  CTTGGAGAACCAGATAGATAGTCCACTGAATGGGAAGGTGA
    |||||
KO  CTTGGAGAACCAGATAG---TCCACTGAATGGGAAGGTGA
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Sanger Sequencing - Human VCAM1 knockout
A549 cell lysate (ab275504)

Allele-1: 4 bp deletion in exon 2

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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