

Human ACE2 knockout Hep G2 cell lysate ab275495

4 图像

概述

产品名称	人ACE2 knockout Hep G2 cell裂解物
产品概述	Knockout cell lysate achieved by CRISPR/Cas9.
Parental Cell Line	HepG2
Organism	Human
Mutation description	Knockout achieved by using CRISPR/Cas9, Homozygous: 71 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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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.

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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
ab277297 - Human ACE2 knockout Hep G2 cell lysate	1 x 100µg
ab277298 - Human wild-type Hep G2 cell lysate	1 x 100µg

Cell type epithelial
Disease Hepatocellular Carcinoma
Gender Male

靶标

功能 Carboxypeptidase which converts angiotensin I to angiotensin 1-9, a peptide of unknown function, and angiotensin II to angiotensin 1-7, a vasodilator. Also able to hydrolyze apelin-13 and dynorphin-13 with high efficiency. May be an important regulator of heart function. In case of human coronaviruses SARS and HCoV-NL63 infections, serve as functional receptor for the spike glycoprotein of both coronaviruses.

组织特异性 Expressed in endothelial cells from small and large arteries, and in arterial smooth muscle cells. Expressed in lung alveolar epithelial cells, enterocytes of the small intestine, Leydig cells and Sertoli cells (at protein level). Expressed in heart, kidney, testis, and gastrointestinal system.

序列相似性 Belongs to the peptidase M2 family.

翻译后修饰 N-glycosylation on Asn-90 may limit SARS infectivity.

细胞定位 Secreted and Cell membrane.

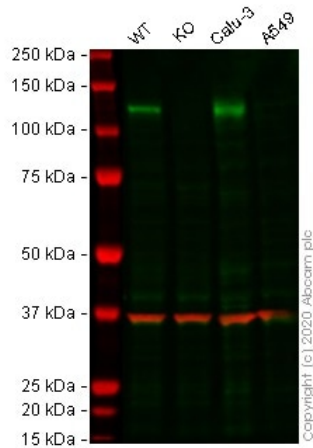
应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab275495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: 92 kDa.

图片



Western blot - Human ACE2 knockout HepG2 cell lysate (ab275495)

Lane 1: Wild-type HepG2 cell lysate 30 ug

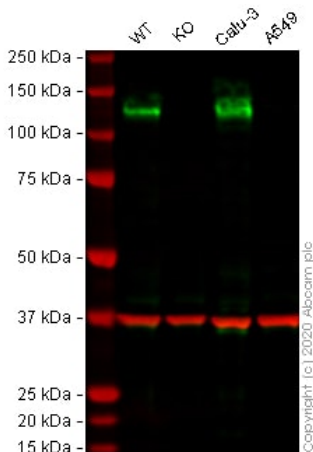
Lane 2: ACE2 knockout HepG2 cell lysate 30 ug

Lane 3: Calu-3 cell lysate 30 ug

Lane 4: A549 cell lysate 30 ug

Lanes 1 - 4: Merged signal (red and green). Green - **ab108252** observed at 130 kDa. Red - loading control **ab8245** (Mouse anti-GAPDH antibody [6C5]) observed at 37kDa.

ab108252 was shown to react with ACE2 in wild-type HepG2 cells in western blot with loss of signal observed in ACE2 knockout cell line **ab273733** (knockout cell lysate ab275495). Wild-type and ACE2 knockout HepG2 cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3% milk in TBS-T (0.1% Tween®) before incubation with **ab108252** and **ab8245** (Mouse anti-GAPDH antibody [6C5]) overnight at 4 °C at a 1 in 1000 dilution 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.



Western blot - Human ACE2 knockout HepG2 cell lysate (ab275495)

Lane 1: Wild-type HepG2 cell lysate 30 ug

Lane 2: ACE2 knockout HepG2 cell lysate 30 ug

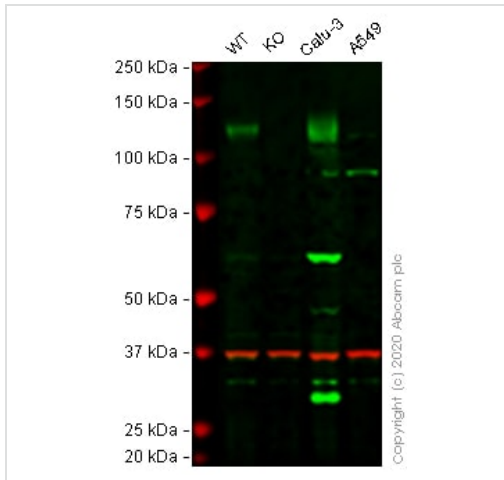
Lane 3: Calu-3 cell lysate 30 ug

Lane 4: A549 cell lysate 30 ug

Lanes 1 - 4: Merged signal (red and green). Green - **ab108209** observed at 130 kDa. Red - loading control **ab8245** (Mouse anti-GAPDH antibody [6C5]) observed at 37kDa.

ab108209 was shown to react with ACE2 in wild-type HepG2 cells in western blot with loss of signal observed in ACE2 knockout cell line **ab273733** (knockout cell lysate ab275495). Wild-type and ACE2 knockout HepG2 cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3% milk in TBS-T (0.1% Tween®) before incubation with **ab108209** and **ab8245** (Mouse anti-GAPDH antibody [6C5]) overnight at 4 °C at a 1 in 1000 dilution 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.



Western blot - Human ACE2 knockout HepG2 cell lysate (ab275495)

Lane 1: Wild-type HepG2 cell lysate 30 ug

Lane 2: ACE2 knockout HepG2 cell lysate 30 ug

Lane 3: Calu-3 cell lysate 30 ug

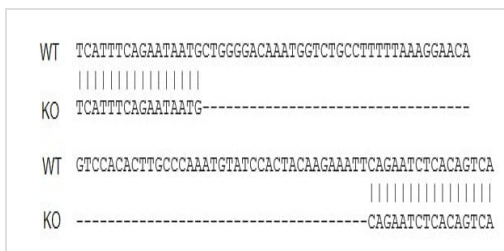
Lane 4: A549 cell lysate 30 ug

Lanes 1 - 4: Merged signal (red and green). Green - **ab65863**

observed at 130 kDa. Red - loading control **ab8245** (Mouse anti-GAPDH antibody [6C5]) observed at 37kDa.

ab65863 was shown to react with ACE2 in wild-type HepG2 cells in western blot with loss of signal observed in ACE2 knockout cell line **ab273733** (knockout cell lysate ab275495). Wild-type and ACE2 knockout HepG2 cell lysates were subjected to SDS-PAGE.

Membranes were blocked in fluorescent western blot (TBS-based) blocking solution before incubation with **ab65863** and **ab8245** (Mouse anti-GAPDH antibody [6C5]) overnight at 4 °C at 1 ug/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.



Sanger Sequencing - Human ACE2 knockout HepG2 cell line

Allele 1: 71 bp deletion in exon 2.

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