

Human CFBF knockout A-431 cell lysate ab270495

4 图像

概述

产品名称	人CFBF knockout A-431 cell裂解物
产品概述	Knockout cell lysate achieved by CRISPR/Cas9.
Parental Cell Line	A431
Organism	Human
Mutation description	Knockout achieved by CRISPR/Cas9; X = 19 bp deletion; Frameshift = 99.99%
Passage number	<20
Knockout validation	Next Generation Sequencing (NGS), 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
ab280548 - Human CFBF knockout A-431 cell lysate	1 x 100µg
ab263973 - Human wild-type A-431 cell lysate	1 x 100µg

Cell type epithelial
Disease Epidermoid Carcinoma
Gender Female

靶标

功能 CBF binds to the core site, 5'-PYGPYGGT-3', of a number of enhancers and promoters, including murine leukemia virus, polyomavirus enhancer, T-cell receptor enhancers, LCK, IL3 and GM-CSF promoters. CBFβ enhances DNA binding by RUNX1.

疾病相关 Note=A chromosomal aberration involving CBFβ is associated with acute myeloid leukemia of M4EO subtype. Pericentric inversion inv(16)(p13;q22). The inversion produces a fusion protein that consists of the 165 N-terminal residues of CBFβ (PEPB2) with the tail region of MYH11.

序列相似性 Belongs to the CBFβ family.

细胞定位 Nucleus.

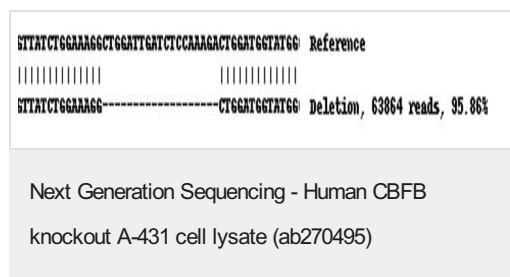
应用

The Abpromise guarantee **Abpromise™** 承诺保证使用 ab270495 于以下的经测试应用

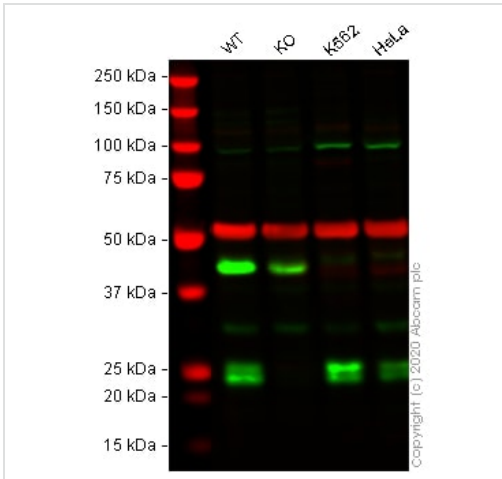
“应用说明”部分下显示的仅为推荐的起始稀释度；实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		Use at an assay dependent concentration.

图片



Knockout achieved by CRISPR/Cas9; X = 19 bp deletion;
Frameshift = 99.99%



Western blot - Human CBFb knockout A-431 cell lysate (ab270495)

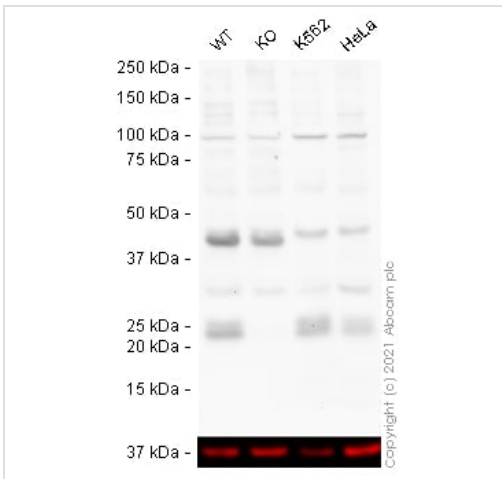
Lane 1: Wild-type A431 cell lysate 20 ug

Lane 2: CBFb knockout A431 cell lysate 20 ug

Lane 3: K562 (Human chronic myelogenous leukemia lymphoblast cell line) whole cell lysate 20 ug

Lane 4: HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate 20 ug

ab133600 was shown to react with CBFb in wild-type A-431 cells in western blot. Loss of signal was observed when CBFb knockout cell line **ab270472** (knockout cell lysate ab270495) was used. Membranes were blocked in 2 % BSA in TBS-T (0.1 % Tween[®]) before incubation with **ab133600** overnight at 4°C at a 1 in 1000 dilution and **ab184095** (Mouse Anti-GAPDH antibody [mAbcam 9484] - Alexa Fluor[®] 680) at a 1 in 1000 dilution. Blots were incubated with HRP conjugated Goat anti-Rabbit (H+L) secondary antibody at 1/5000 for 1 hour at room temperature before development with Optiblot ECL reagent (**ab133456**) and imaging.



Western blot - Human CBFb knockout A-431 cell lysate (ab270495)

Lane 1: Wild-type A431 cell lysate 20 ug

Lane 2: CBFb knockout A431 cell lysate 20 ug

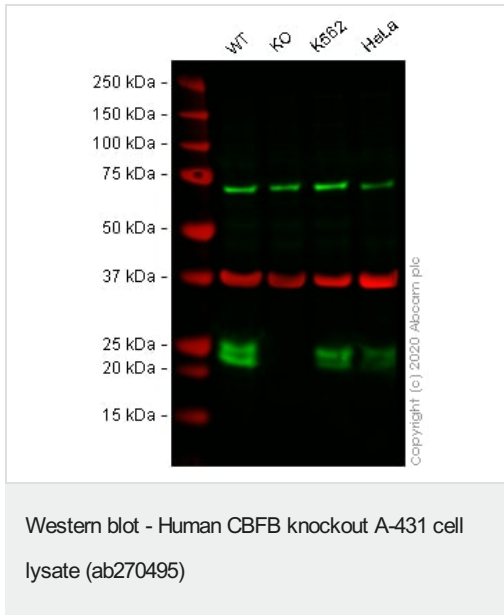
Lane 3: K562 (Human chronic myelogenous leukemia lymphoblast cell line) whole cell lysate 20 ug

Lane 4: HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate 20 ug

Lanes 1 - 4: Merged signal (red and green). Green - **ab133600** observed at 22 kDa. Red - loading control **ab7291** (Mouse anti-Alpha Tubulin [DM1A]) observed at 55kDa.

ab133600 was shown to react with CBFb in wild-type A-431 cells in western blot with loss of signal observed in CBFb knockout cell line **ab270472** (knockout cell lysate ab270495). Wild-type and CBFb knockout A-431 cell lysates were subjected to SDS-PAGE. Membranes were blocked in 2% BSA in TBS-T (0.1% Tween[®]) before incubation with **ab133600** and **ab7291** (Mouse anti-Alpha Tubulin [DM1A]) 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.



Lane 1: Wild-type A431 cell lysate 20 ug

Lane 2: CBFb knockout A431 cell lysate 20 ug

Lane 3: K562 (Human chronic myelogenous leukemia lymphoblast cell line) whole cell lysate 20 ug

Lane 4: HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate 20 ug

Lanes 1 -4: Merged signal (red and green). Green - **ab124693** observed at 24-25 kDa. Red - loading control, **ab7291** (Mouse anti-Alpha Tubulin [DM1A]) observed at 55kDa.

ab124693 was shown to react with CBFb in wild-type A-431 cells in western blot. Loss of signal was observed when CBFb knockout cell line **ab270472** (knockout cell lysate ab270495) was used. Wild-type and CBFb knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3% milk in TBS-T (0.1% Tween®) before incubation with **ab124693** and **ab7291** (Mouse anti-Alpha Tubulin [DM1A]) 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.

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