abcam

Product datasheet

Human HIST1H1C (Histone H1.2) knockout A549 cell line ab261873

3 图像

概述

产品名称	人HIST1H1C (Histone H1.2) knockout A549 cell line
Parental Cell Line	A549
Organism	Human
Mutation description	Knockout achieved by CRISPR/Cas9; X = 8 bp deletion; Frameshift = 99%
Passage number	<20
Knockout validation	Next Generation Sequencing (NGS), Western Blot (WB)
经测试应用	**适用于:** Next Generation Sequencing, WB
Biosafety level	1
常规说明	**Recommended control:** Human wild-type A549 cell line (**ab259777**). Please note a wild-type cell line is not automatically included with a knockout cell line order, if required please add recommended wild-type cell line at no additional cost using the code WILDTYPE-TMTK1. **Cryopreservation cell medium:** Cell Freezing Medium-DMSO Serum free media, contains 8.7% DMSO in MEM supplemented with methyl cellulose. **Culture medium:** DMEM:Hams F12 + 5% FBS **Initial handling guidelines:** Upon arrival, the vial should be stored in liquid nitrogen vapor phase and not at -80°C. Storage at -80°C may result in loss of viability. 1. Thaw the vial in 37°C water bath for approximately 1-2 minutes. 2. Transfer the cell suspension (0.8 mL) to a 15 mL/50 mL conical sterile polypropylene centrifuge tube containing 8.4 mL pre-warmed culture medium, wash vial with an additional 0.8 mL culture medium (total volume 10 mL) to collect remaining cells, and centrifuge at 201 x g (rcf) for 5 minutes at room temperature. 10 mL represents minimum recommended dilution. 20 mL represents maximum recommended dilution. 3. Resuspend the cell pellet in 5 mL pre-warmed culture medium and count using a haemocytometer or alternative cell counting method. Based on cell count, seed cells in an appropriate cell culture flask at a density of $2x10^3$-$1x10^4$ cells/cm^2. Seeding density is given as a guide only and should be scaled to align with individual lab schedules. 4. Incubate the culture at 37°C incubator with 5% CO_2. Cultures should be monitored daily. **Subculture guidelines:** All seeding densities should be based on cell counts gained by established methods. A guide seeding density of $6x10^4$ cells/cm^2 is recommended.

A partial media change 24 hours prior to subculture may be helpful to encourage growth, if required.
Cells should be passaged when they have achieved 80-90% confluence.
Do not exceed $7x10^4$ cells/cm^2.
This product is subject to limited use licenses from The Broad Institute and ERS Genomics Limited, and is developed with patented technology. For full details of the limited use licenses and relevant patents please refer to our **limited use license** and **patent pages**.

We will provide viable cells that proliferate on revival.

性能

Number of cells	1 x 10^6 cells/vial, 1 mL
Adherent /Suspension	Adherent
Tissue	Lung
Cell type	epithelial
Disease	Carcinoma
Gender	Male
Mycoplasma free	Yes
存放说明	Shipped on Dry Ice. Store in liquid nitrogen.
存储溶液	Constituents: 8.7% Dimethylsulfoxide, 2% Cellulose, methyl ether

靶标

功能	Histones H1 are necessary for the condensation of nucleosome chains into higher order structures.
序列相似性	Belongs to the histone H1/H5 family. Contains 1 H15 (linker histone H1/H5 globular) domain.
细胞定位	Nucleus. Chromosome.

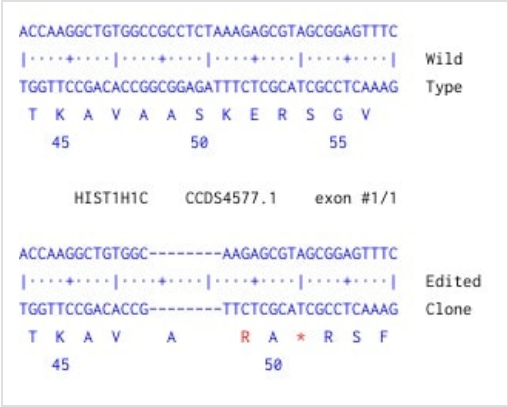
应用

The Abpromise guarantee **Abpromise™承诺保证使用ab261873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。

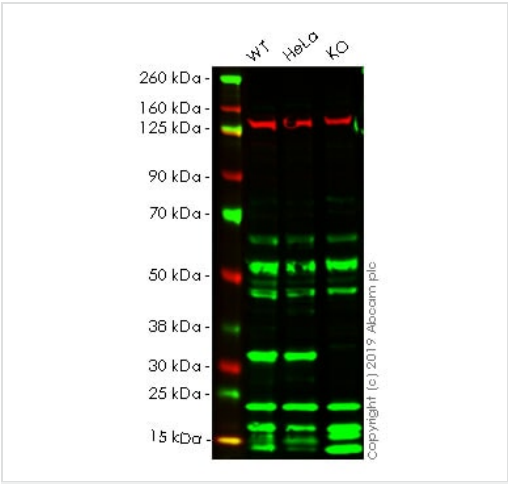
应用	Ab评论	说明
Next Generation Sequencing		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration.

图片



Next Generation Sequencing - Human HIST1H1C (Histone H1.2) knockout A549 cell line (ab261873)

8 bp deletion after Val47 of the WT protein



Western blot - Human HIST1H1C (Histone H1.2) knockout A549 cell line (ab261873)

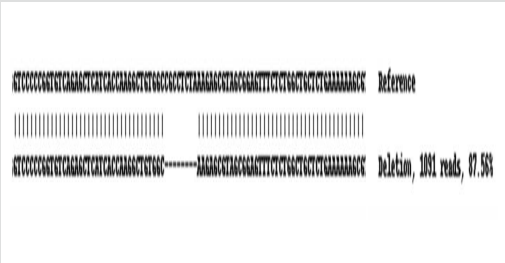
All lanes : Anti-Histone H1.2 antibody - ChIP Grade (**ab4086**) at 1/500 dilution

Lane 1 : Wild-type A549 (Human lung carcinoma cell line) whole cell lysate at 20 µg/ml
Lane 2 : HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate at 20 µg/ml
Lane 3 : HIST1H1C knockout A549 (Human lung carcinoma cell line) whole cell lysate at 20 µg

Performed under reducing conditions.

Lanes 1 - 3: Merged signal (red and green). Green - **ab4086** observed at 30 kDa. Red - loading control, **ab130007**, observed at 130 kDa.

ab4086 was shown to recognize HIST1H1C in wild-type A549 cells as signal was lost at the expected MW in HeLa knockout cell line ab261873 (knockout cell lysate **ab261682**). Additional cross-reactive bands were observed in the wild-type and knockout samples. Wild-type and HeLa knockout samples were subjected to SDS-PAGE. Ab4086 and **ab130007** (Mouse anti-Vinculin loading control) were incubated overnight at 4°C at 1/500 dilution and 1/20000 dilution respectively. Blots were developed 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 1/20000 dilution for 1 hour at room temperature before imaging.



Next Generation Sequencing - Human HIST1H1C (Histone H1.2) knockout A549 cell line (ab261873)

X = 8 bp deletion

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