abcam

Product datasheet

Human SMARCC1 (BAF155) knockout HEK-293 cell lysate ab261662

2 图像

概述

产品名称	人SMARCC1 (BAF155) knockout HEK-293 cell裂解物
产品概述	Knockout cell lysate achieved by CRISPR/Cas9.
Parental Cell Line	HEK-293
Organism	Human
Mutation description	Knockout achieved by CRISPR/Cas9; X = 1 bp insertion, 2 bp insertion, 1 bp insertion
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. **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
ab280412 - Human SMARCC1 knockout HEK293 cell lysate	1 x 100µg
ab259780 - Human wild-type HEK-293 cell lysate	1 x 100µg

Cell type	epithelial
Gender	Female

靶标

功能	Involved in transcriptional activation and repression of select genes by chromatin remodeling (alteration of DNA-nucleosome topology). May stimulate the ATPase activity of the catalytic subunit of the complex. Also involved in vitamin D-coupled transcription regulation via its association with the WINAC complex, a chromatin-remodeling complex recruited by vitamin D receptor (VDR), which is required for the ligand-bound VDR-mediated transrepression of the CYP27B1 gene. Belongs to the neural progenitors-specific chromatin remodeling complex (npBAF complex) and the neuron-specific chromatin remodeling complex (nBAF complex). During neural development a switch from a stem/progenitor to a post-mitotic chromatin remodeling mechanism occurs as neurons exit the cell cycle and become committed to their adult state. The transition from proliferating neural stem/progenitor cells to post-mitotic neurons requires a switch in subunit composition of the npBAF and nBAF complexes. As neural progenitors exit mitosis and differentiate into neurons, npBAF complexes which contain ACTL6A/BAF53A and PHF10/BAF45A, are exchanged for homologous alternative ACTL6B/BAF53B and DPF1/BAF45B or DPF3/BAF45C subunits in neuron-specific complexes (nBAF). The npBAF complex is essential for the self-renewal/proliferative capacity of the multipotent neural stem cells. The nBAF complex along with CREST plays a role regulating the activity of genes essential for dendrite growth.
组织特异性	Expressed in brain, heart, muscle, placenta, lung, liver, muscle, kidney and pancreas.
序列相似性	Belongs to the SMARCC family. Contains 1 SANT domain. Contains 1 SWIRM domain.
翻译后修饰	Phosphorylated on undefined residues at the G2/M transition by ERK1 and other kinases. This may contribute to cell cycle specific inactivation of remodeling complexes containing the phosphorylated protein.
细胞定位	Nucleus.

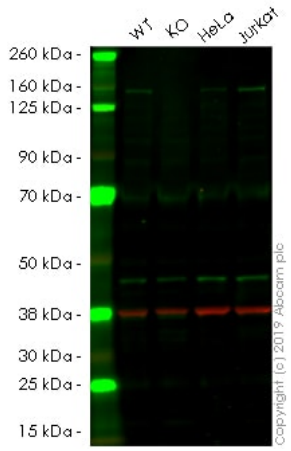
应用

The Abpromise guarantee	**Abpromise™承诺保证使用ab261662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



Western blot - Human SMARCC1 (BAF155) knockout HEK-293 cell lysate (ab261662)

Lane 1: Wild-type HEK-293 (Human epithelial cell line from embryonic kidney) whole cell lysate 20 ug

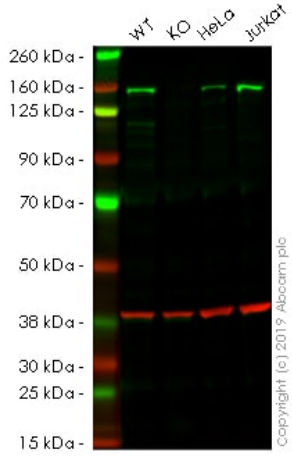
Lane 2: SMARCC1 knockout HEK-293 (Human epithelial cell line from embryonic kidney) whole cell lysate 20 ug

Lane 3: HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate 20 ug

Lane 4: Jurkat (Human T cell leukemia cell line from peripheral blood) whole cell lysate 20 ug

Lanes 1 - 4: Merged signal (red and green). Green - **ab172636** observed at 123 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab172636 was shown to specifically react with SMARCC1 in wild-type HEK-293 cells as signal was lost in SMARCC1 knockout cell line **ab261854** (knockout cell lysate ab261662). Wild-type and SMARCC1 knockout samples were subjected to SDS-PAGE. The membrane was blocked with 3% milk. Ab172636 and **ab8245** (Mouse anti GAPDH loading control) were incubated overnight at 4°C at 1/5000 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.



Western blot - Human SMARCC1 (BAF155) knockout HEK-293 cell lysate (ab261662)

Lane 1: Wild-type HEK293 whole cell lysate 20 ug

Lane 2: SMARCC1 knockout HEK293 whole cell lysate 20 ug

Lane 3: HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate 20 ug

Lane 4: Jurkat (Human T cell leukemia cell line from peripheral blood) whole cell lysate 20 ug

Lanes 1 - 4: Merged signal (red and green). Green - **ab172638** observed at 123 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab172638 was shown to recognize in wild-type HEK-293 cells as signal was lost at the expected MW in SMARCC1 knockout cell line **ab261854** (knockout cell lysate ab261662). Additional cross-reactive bands were observed in the wild-type and knockout cell lysate. Wild-type and SMARCC1 knockout samples were subjected to SDS-PAGE. The membrane was blocked with 3% milk. Ab172638 and **ab8245** (Mouse anti-GAPDH loading control) were incubated overnight at 4°C at 1/5000 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.

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