abcam

Product datasheet

Anti-SNF5/SMARCB1 antibody [EPR6966] ab126734





重组 RabMAb

★★★★★ 3 Abreviews 4 References 4 图像

概述

产品名称 Anti-SNF5/SMARCB1抗体[EPR6966]

描述 兔单克隆抗体[EPR6966] to SNF5/SMARCB1

宿主 Rabbit

经测试应用 适用于: WB

不适用于: Flow Cyt,ICC/IF or IHC-P

种属反应性 与反应: Human

预测可用于: Mouse, Rat, Zebrafish _____

免疫原 Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.

阳性对照 WB: HeLa, Jurkat, K562, Daudi and HEK293T cell lysates.

This product is a recombinant monoclonal antibody, which offers several advantages including: 常规说明

- High batch-to-batch consistency and reproducibility

- Improved sensitivity and specificity

- Long-term security of supply

- Animal-free production

For more information see here.

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb**® **patents**.

性能

形式 Liquid

存放说明 Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.

存储溶液 pH: 7.20

Preservative: 0.01% Sodium azide

Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.5% BSA

纯度 Protein A purified

克隆 单克隆 克隆编号 **EPR6966**

同种型 lgG

The Abpromise guarantee

Abpromise™承诺保证使用ab126734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	★★★★☆ (3)	1/1000 - 1/10000. Detects a band of approximately 44 kDa (predicted molecular weight: 44 kDa).

应用说明

Is unsuitable for Flow Cyt,ICC/IF or IHC-P.

靶标

功能

Core component of the BAF (hSWI/SNF) complex. This ATP-dependent chromatin-remodeling complex plays important roles in cell proliferation and differentiation, in cellular antiviral activities and inhibition of tumor formation. The BAF complex is able to create a stable, altered form of chromatin that constrains fewer negative supercoils than normal. This change in supercoiling would be due to the conversion of up to one-half of the nucleosomes on polynucleosomal arrays into asymmetric structures, termed altosomes, each composed of 2 histones octamers. Stimulates in vitro the remodeling activity of SMARCA4/BRG1/BAF190A. Involved in activation of CSF1 promoter. 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 (By similarity). Plays a key role in cell-cycle control and causes cell cycle arrest in G0/G1. 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.

疾病相关

Defects in SMARCB1 are a cause of rhabdoid tumor (RDT) [MIM:609322]; also known as malignant rhabdoid tumor (MRT). RDT are a highly malignant group of neoplasms that usually occur in early childhood. SMARCB1/INI1 is also frequently inactivated in epithelioid sarcomas. Defects in SMARCB1 are a cause of schwannomatosis (SCHWA) [MIM:162091]; also called congenital cutaneous neurilemmomatosis. Schwannomas are benign tumors of the peripheral nerve sheath that usually occur singly in otherwise normal individuals. Multiple schwannomas in the same individual suggest an underlying tumor-predisposition syndrome. The most common such syndrome is NF2. The hallmark of NF2 is the development of bilateral vestibular-nerve schwannomas; but two-thirds or more of all NF2-affected individuals develop schwannomas in other locations, and dermal schwannomas may precede vestibular tumors in NF2-affected children. There have been several reports of individuals with multiple schwannomas who do not show evidence of vestibular schwannoma. Clinical report suggests that schwannomatosis is a

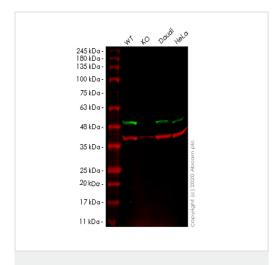
clinical entity distinct from other forms of neurofibromatosis.

序列相似性 Belongs to the SNF5 family.

翻译后修饰 Phosphorylated upon DNA damage, probably by ATM or ATR.

细胞定位 Nucleus.

图片



Western blot - Anti-SNF5/SMARCB1 antibody [EPR6966] (ab126734) **All lanes :** Anti-SNF5/SMARCB1 antibody [EPR6966] (ab126734) at 1/1000 dilution

Lane 1: Wild-type HEK293T cell lysate

Lane 2: SMARCB1 knockout HEK293T cell lysate

Lane 3 : Daudi cell lysate

Lane 4 : HeLa cell lysate

Lysates/proteins at 20 µg per lane.

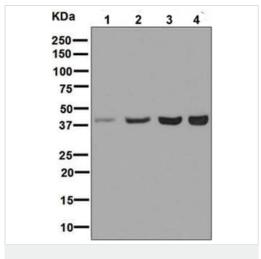
Secondary

All lanes : Goat anti-Rabbit lgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) at 1/10000 dilution

Predicted band size: 44 kDa Observed band size: 50 kDa

Lanes 1-4: Merged signal (red and green). Green - ab126734 observed at 50 kDa. Red - loading control <u>ab8245</u> observed at 36 kDa.

ab126734 Anti-SNF5/SMARCB1 antibody [EPR6966] was shown to specifically react with SNF5/SMARCB1 in wild-type HEK293T cells. Loss of signal was observed when knockout cell line ab267269 (knockout cell lysate ab257688) was used. Wild-type and SNF5/SMARCB1 knockout samples were subjected to SDS-PAGE. ab126734 and Anti-GAPDH antibody [6C5] - Loading Control (ab8245) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (ab216773) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (ab216776) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-SNF5/SMARCB1 antibody [EPR6966] (ab126734) **All lanes :** Anti-SNF5/SMARCB1 antibody [EPR6966] (ab126734) at 1/1000 dilution

Lane 1 : HeLa cell lysate
Lane 2 : Jurkat cell lysate
Lane 3 : K562 cell lysate
Lane 4 : 293T cell lysate

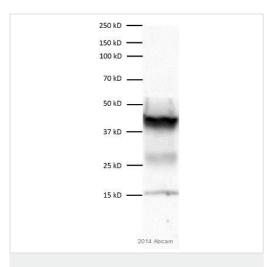
Lysates/proteins at 10 µg per lane.

Secondary

All lanes: Goat-anti-rabbit HRP at 1/2000 dilution

Developed using the ECL technique.

Predicted band size: 44 kDa



Western blot - Anti-SNF5/SMARCB1 antibody [EPR6966] (ab126734)

This image is courtesy of an anonymous Abreview

Anti-SNF5/SMARCB1 antibody [EPR6966] (ab126734) at 1/2000 dilution + Zebrafish whole mount purified protein at 15 µg

Secondary

Undiluted HRP-conjugated goat anti-rabbit IgG polyclonal

Developed using the ECL technique.

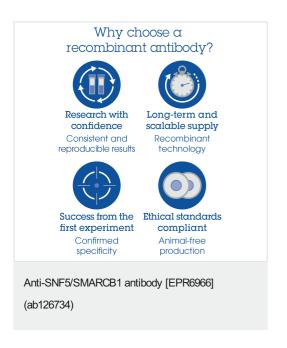
Performed under reducing conditions.

Predicted band size: 44 kDa **Observed band size:** 44 kDa

Additional bands at: 15 kDa (possible non-specific binding), 28

kDa (possible non-specific binding)

Exposure time: 15 seconds



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