

Product datasheet

Anti-SMARCC1 antibody ab22355

★★★★☆ 1 Abreviews 3 图像

概述

产品名称	Anti-SMARCC1抗体
描述	兔多克隆抗体to SMARCC1
宿主	Rabbit
经测试应用	适用于: ICC/IF, WB, IHC-P
种属反应性	与反应: Human 预测可用于: Mouse, Rat, Chicken, Dog
免疫原	Synthetic peptide conjugated to KLH derived from within residues 300 - 400 of Human SMARCC1. 参阅Abcam的专有抗源政策 (Peptide available as ab24351 .)
阳性对照	This antibody gave a positive signal for Western Blot in HeLa whole cell lysate. This antibody gave a positive signal for Immunofluorescence in HeLa cells.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
存储溶液	Preservative: 0.02% Sodium Azide Constituents: 1% BSA, PBS, pH 7.4
纯度	Immunogen affinity purified
克隆	多克隆
同种型	IgG

应用

Our [Abpromise guarantee](#) covers the use of **ab22355** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明
ICC/IF		Use a concentration of 1 µg/ml.

应用	Ab评论	说明
WB	★★★★☆	Use a concentration of 1 µg/ml. Detects a band of approximately 150 kDa (predicted molecular weight: 122 kDa).
IHC-P		1/2000. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

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.

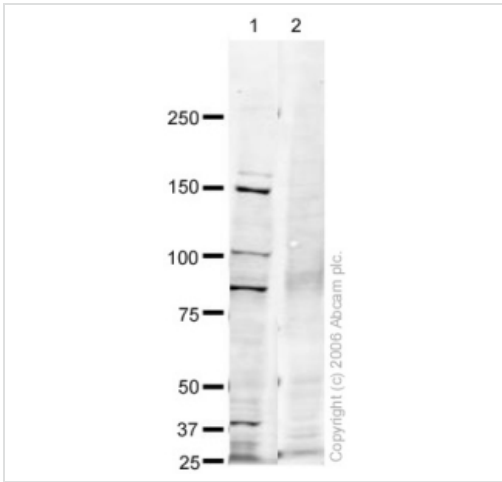
翻译后修饰

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.

图片



Western blot - SMARCC1 antibody (ab22355)

All lanes : Anti-SMARCC1 antibody (ab22355) at 1 µg/ml

Lane 1 : HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate at 20 µg

Lane 2 : HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate at 20 µg with Human SMARCC1 peptide (ab24351) at 1 µg/ml

Secondary

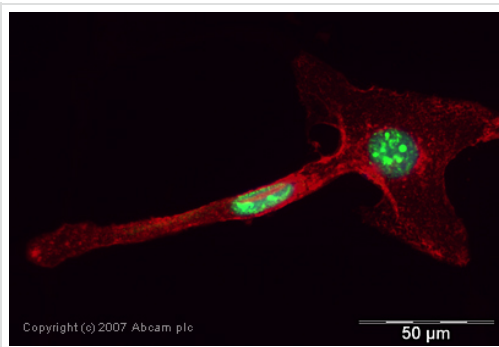
All lanes : Goat polyclonal to Rabbit IgG (Alexa Fluor® 680) at 1/10000 dilution

Predicted band size: 122 kDa

Observed band size: 150 kDa

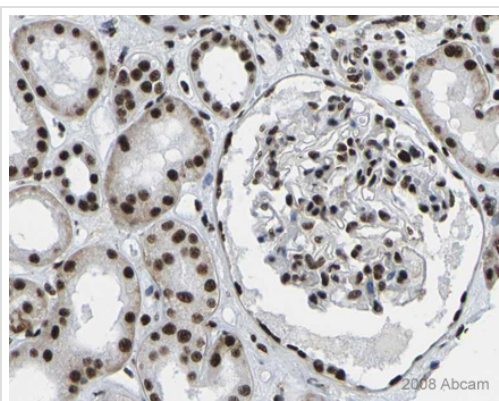
Additional bands at: 100 kDa (possible cleavage fragment), 100 kDa (possible cross reactivity), 40 kDa (possible cleavage fragment), 40 kDa (possible cross reactivity), 85 kDa (possible cleavage fragment), 85 kDa (possible cross reactivity)

ab22355 detects a band at 150 kDa which corresponds in size to that seen for SMARCC1, which was originally identified as a ~150 kDa polypeptide and termed BAF155. It also detects some smaller proteins at approximately 100, 85 and 40 kDa which may be degradation products. All of these bands are competed away by the addition of the immunizing peptide, suggesting that the interaction is specific.



Immunocytochemistry/ Immunofluorescence -
SMARCC1 antibody (ab22355)

ICC/IF image of ab22355 stained human HeLa cells. The cells were methanol fixed (5 min), permabilised in TBS-T (20 min) and incubated with the antibody (ab22355, 1 µg/ml) for 1h at room temperature. 1%BSA / 10% normal goat serum / 0.3M glycine was used to quench autofluorescence and block non-specific protein-protein interactions. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red). DAPI was used to stain the cell nuclei (blue).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - SMARCC1 antibody (ab22355)

Image courtesy of [Human Protein Atlas](#)

ab22355 staining SMARCC1 in human kidney. Paraffin embedded human kidney tissue was incubated with ab22355 (1/2000 dilution) for 30 mins at room temperature. Antigen retrieval was performed by heat induction in citrate buffer pH 6.

ab22355 was tested in a tissue microarray (TMA) containing a wide range of normal and cancer tissues as well as a cell microarray consisting of a range of commonly used, well characterised human cell lines.

Further results for this antibody can be found at www.proteinatlas.org

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