


Product datasheet

Anti-SMARCC1 antibody ab72502

1 References 3 图像

概述

产品名称	Anti-SMARCC1抗体
描述	兔多克隆抗体to SMARCC1
经测试应用	适用于: ICC/IF, WB, IP
种属反应性	与反应: Human 预测可用于: Rabbit, Horse, Guinea pig, Cow, Dog, Pig, Chimpanzee, Ferret, Rhesus monkey, Gorilla, Orangutan, Elephant 
免疫原	Synthetic peptide corresponding to a region between residues 750 and 800 of human SMARCC1 (NP_003065.2)
阳性对照	HeLa whole cell lysate. This antibody gave a positive result when used in the following methanol fixed cell lines: HeLa and HepG2 cells.

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	Preservative: 0.09% Sodium Azide Constituents: 8mM PBS, 60mM Citrate, 150mM Tris, pH 7-8
纯度	Immunogen affinity purified
纯化说明	ab72502 was affinity purified using an epitope specific to SMARCC1 immobilized on solid support.
克隆	多克隆
同种型	IgG

应用

Our [Abpromise guarantee](#) covers the use of **ab72502** 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 5 µg/ml.

应用	Ab评论	说明
WB		1/2000 - 1/10000. Detects a band of approximately 160 kDa (predicted molecular weight: 123 kDa).
IP		Use at 2-5 µg/mg of lysate.

## 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.

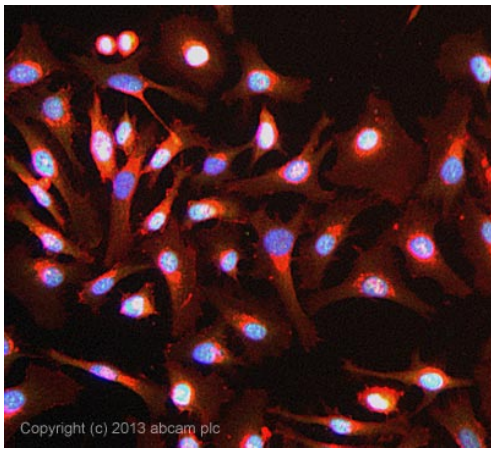
### 翻译后修饰

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

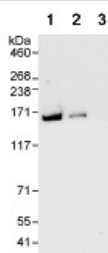
Nucleus.

## 图片



Immunocytochemistry/ Immunofluorescence - Anti-SMARCC1 antibody (ab72502)

ICC/IF image of ab72502 stained HeLa cells. The cells were 100% methanol fixed (5 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody ab72502 at 5µg/ml overnight at +4°C. The secondary antibody (green) was DyLight® 488 goat anti- rabbit (ab96899) IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM. This antibody also gave a positive result in methanol fixed (100%, 5min) HepG2 cells at 5ug/ml.



Western blot - SMARCC1 antibody (ab72502)

**All lanes :** Anti-SMARCC1 antibody (ab72502) at 0.1 µg/ml

**Lane 1 :** HeLa whole cell lysate at 50 µg

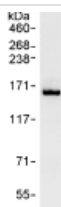
**Lane 2 :** HeLa whole cell lysate at 15 µg

**Lane 3 :** HeLa whole cell lysate at 5 µg

**Predicted band size :** 123 kDa

**Observed band size :** 160 kDa

**Exposure time :** 30 seconds



Immunoprecipitation - SMARCC1 antibody (ab72502)

Detection of SMARCC1 by Western Blot of Immunoprecipitate.

ab72502 at 1µg/ml staining SMARCC1 in HeLa whole cell lysate immunoprecipitated using ab72502 at 3µg/mg lysate (1 mg/IP; 20% of IP loaded/lane).

Detection: Chemiluminescence with exposure time of 10 seconds.

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