


Anti-BAF57/SMARCE1 antibody ab70540

20 References 4 图像

概述

产品名称	Anti-BAF57/SMARCE1抗体
描述	兔多克隆抗体to BAF57/SMARCE1
宿主	Rabbit
经测试应用	适用于: WB, IP, IHC-P
种属反应性	与反应: Mouse, Human 预测可用于: Rabbit, Horse, Chimpanzee, Rhesus monkey, Gorilla, Orangutan, Bat 
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	Whole cell lysate from HeLa, 293T or NIH3T3 cells
常规说明	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

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	pH: 7 Preservative: 0.09% Sodium azide Constituents: 1.815% Tris, 1.764% Sodium citrate, 0.021% PBS
纯度	Immunogen affinity purified
克隆	多克隆
同种型	IgG

应用

The Abpromise guarantee Abpromise™承诺保证使用ab70540于以下的经测试应用

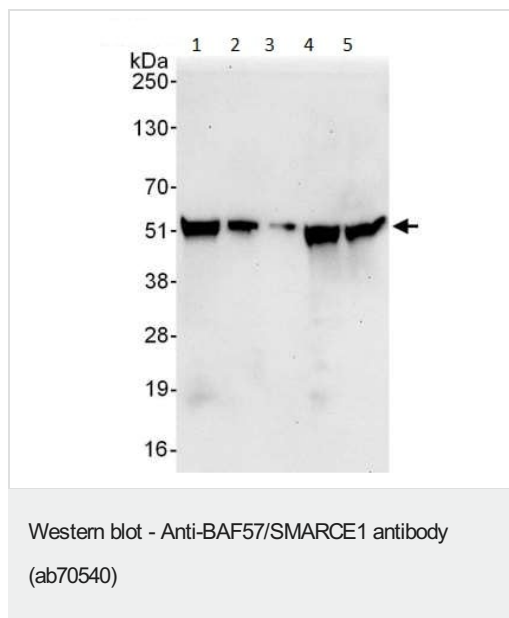
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		1/2000 - 1/10000. Detects a band of approximately 55 kDa (predicted molecular weight: 47 kDa).
IP		Use at 2-5 µg/mg of lysate.
IHC-P		Use a concentration of 1 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 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). 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). Required for the coactivation of estrogen responsive promoters by Swi/Snf complexes and the SRC/p160 family of histone acetyltransferases (HATs). Also specifically interacts with the CoREST corepressor resulting in repression of neuronal specific gene promoters in non-neuronal cells. 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.
序列相似性	Contains 1 HMG box DNA-binding domain.
结构域	The HMG domain is essential for CD4 silencing and CD8 activation; mutation of this domain blocks thymus development.
细胞定位	Nucleus.

## 图片



**All lanes :** Anti-BAF57/SMARCE1 antibody (ab70540) at 0.1 µg/ml

**Lane 1 :** HeLa whole cell lysate at 5 µg

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

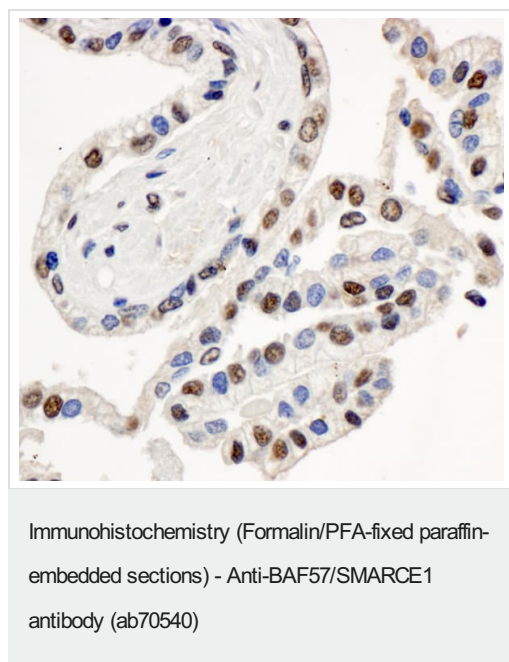
**Lane 3 :** HeLa whole cell lysate at 50 µg

**Lane 4 :** 293T cells at 50 µg

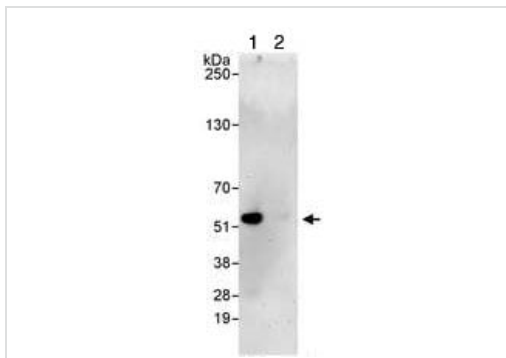
**Lane 5 :** NIH3T3 cells at 50 µg

**Predicted band size:** 47 kDa

**Exposure time:** 30 seconds

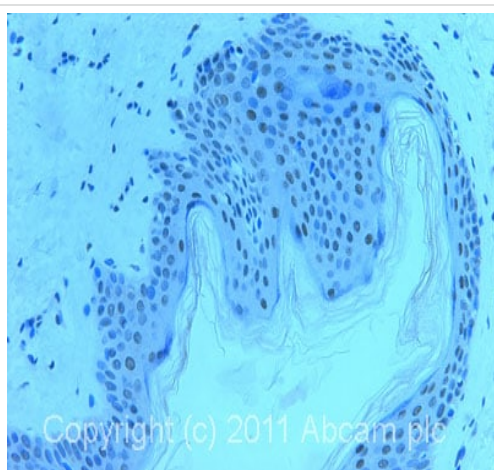


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human prostate carcinoma tissue labelling BAF57/SMARCE1 with ab70540 at 1/1000 (1 µg/ml). Detection: DAB.



Immunoprecipitation - Anti-BAF57/SMARCE1 antibody (ab70540)

1mg of lysate from HeLa cells was immunoprecipitated using ab70540 at 3ug/mg of lysate (lane 1 or a control rabbit IgG (lane 2). For the subsequent western blot, 20% of immunoprecipitate was loaded per lane, and ab70540 was used at 1ug/ml.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BAF57/SMARCE1 antibody (ab70540)

IHC image of ab70540 staining in normal human skin formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab70540, 1µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

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