

Anti-SMARCA2 / BRM antibody ab15597

★★★★★ [7 Abreviews](#) [68 References](#) [4 图像](#)

概述

产品名称	Anti-SMARCA2 / BRM抗体
描述	兔多克隆抗体to SMARCA2 / BRM
宿主	Rabbit
特异性	Specific for human Brm from human cell lines (it does not appear to cross react with Brg1 which has been the nemesis of some other so-called Brm-specific antibodies).
经测试应用	适用于: ICC/IF, WB
种属反应性	与反应: Mouse, Human 预测可用于: Rat 
免疫原	Other Immunogen Type. This information is proprietary to Abcam and/or its suppliers.
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&As</p>

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	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS
纯度	Protein A purified
克隆	多克隆
同种型	IgG

应用

The Abpromise guarantee

Abpromise™承诺保证使用ab15597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
ICC/IF	★★★★★ (1)	Use at an assay dependent concentration.
WB	★★★★★ (3)	Use a concentration of 0.95 µg/ml. Detects a band of approximately 180 kDa (predicted molecular weight: 180 kDa).

靶标

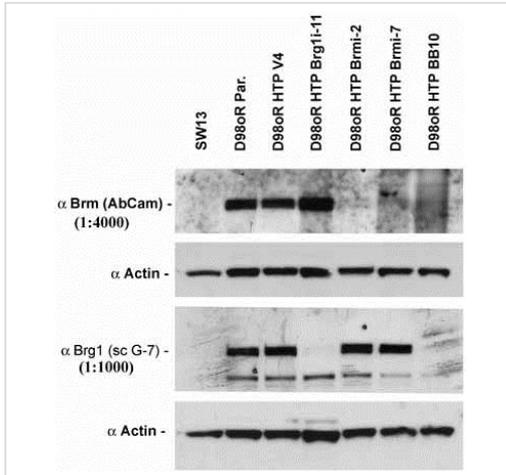
功能 Transcriptional coactivator cooperating with nuclear hormone receptors to potentiate transcriptional activation. Also involved in vitamin D-coupled transcription regulation via its association with the WINAC complex, a chromatin-remodeling complex recruited by vitamin D receptor (VDR), which is required 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.

疾病相关 Nicolaiides-Baraitser syndrome

序列相似性 Belongs to the SNF2/RAD54 helicase family.
Contains 1 bromo domain.
Contains 1 helicase ATP-binding domain.
Contains 1 helicase C-terminal domain.
Contains 1 HSA domain.
Contains 1 QLQ domain.

细胞定位 Nucleus.

图片

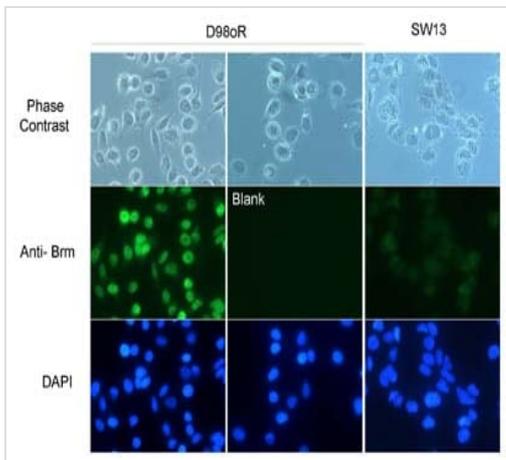


Western blot - Anti-SMARCA2 / BRM antibody (ab15597)

This image is courtesy of Gary Rosson

The WB image shows a composite of 2 western blots illustrating the specificity of the ab15597. The cell lines used here are as follows:

SW13- a human adrenal adenocarcinoma deficient in Brg1 and Brm (Neg. Control)



Immunocytochemistry/ Immunofluorescence - Anti-SMARCA2 / BRM antibody (ab15597)

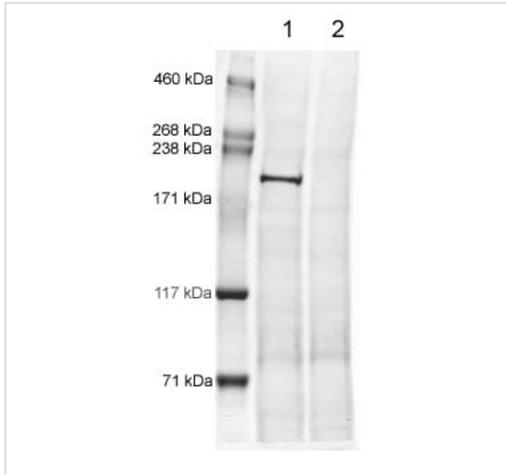
This image is courtesy of Garry Rosson, North Carolina at Chapel Hill

Immunofluorescence using the Brm antibody ab15597.

It appears the antibody works well in IF detecting BRM in D98oR WT cells. The D98oR BB10 blank omitted the primary antibody as a control. However, it was also positive on a cell line that has Brm knocked down by RNAi, (the BB10 cell line). This may be because RNAi is simply a knock down not a knock out or could be that the antibody is so good it is picking up the small amount of Brm remaining in the BB10s (highly possible), or the dilution is too high. Or, it may be that its crossreacting with another protein (though there was no cross reactivity with Brg1 in WB).

Original magnification 400x. ab15597 dilution 1:100.

Work is continuing on characterising this ab in IF.



Western blot - Anti-SMARCA2 / BRM antibody (ab15597)

All lanes : Anti-SMARCA2 / BRM antibody (ab15597) at 1 µg/ml

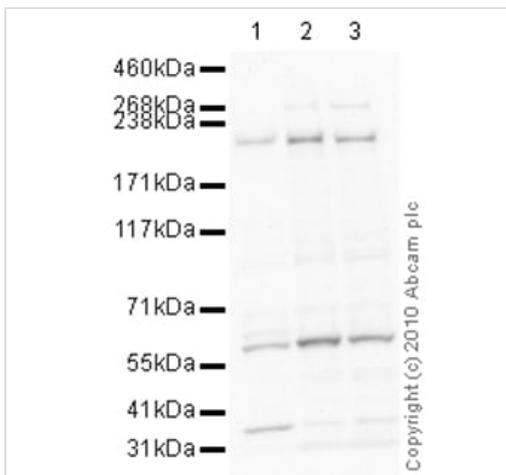
Lane 1 : D98oR (subclone HeLa) positive control lysate

Lane 2 : SW13 (Human adrenal adenocarcinoma) negative control lysate

Lysates/proteins at 20 µg per lane.

Predicted band size: 180 kDa

Observed band size: 180 kDa



Western blot - Anti-SMARCA2 / BRM antibody (ab15597)

All lanes : Anti-SMARCA2 / BRM antibody (ab15597) at 1 µg/ml

Lane 1 : Brain (Mouse) Tissue Lysate

Lane 2 : HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate

Lane 3 : HEK293 (Human embryonic kidney cell line) Whole Cell Lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 180 kDa

Observed band size: 220 kDa

Additional bands at: 35 kDa, 60 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 5 minutes

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