abcam

Product datasheet

Anti-SMARCA2 / BRM antibody [EPR23103-44] ab240648

敲除验证 重组 RabMAb

2 References 9 图像

概述

产品名称	Anti-SMARCA2 / BRM抗体[EPR23103-44]
描述	兔单克隆抗体[EPR23103-44] to SMARCA2 / BRM
宿主	Rabbit
经测试应用	**适用于:** Flow Cyt (Intra), WB, IHC-P, ICC/IF **不适用于:** IP
种属反应性	**与反应:** Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: Wild-type HeLa, Daudi, HEK-293T, HeLa, MCF7 and Neuro-2a lysates. IHC-P: Human renal cell carcinoma, mouse cerebrum and rat kidney tissue. ICC/IF: HeLa and Neuro-2a cells. Flow Cyt (intra): HeLa cells.
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: - 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 +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
存储溶液	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR23103-44

同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用**ab240648**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。

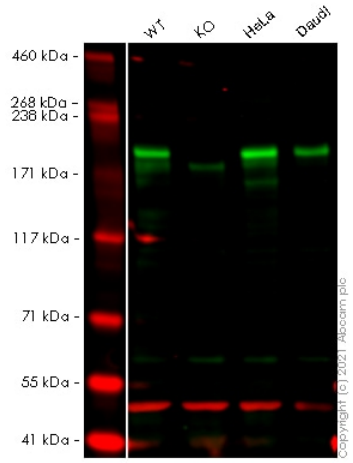
应用	Ab评论	说明
Flow Cyt (Intra)		1/500.
WB		1/1000. Detects a band of approximately 200 kDa (predicted molecular weight: 181 kDa).
IHC-P		1/2000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		1/50.

应用说明	Is unsuitable for IP.

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	Nicolaides-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 [EPR23103-44] (ab240648)

All lanes : Anti-SMARCA2 / BRM antibody [EPR23103-44] (ab240648) at 1/1000 dilution

Lane 1 : Wild-type HeLa cell lysate
Lane 2 : SMARCA2 knockout HeLa cell lysate
Lane 3 : HeLa cell lysate
Lane 4 : Daudi cell lysate

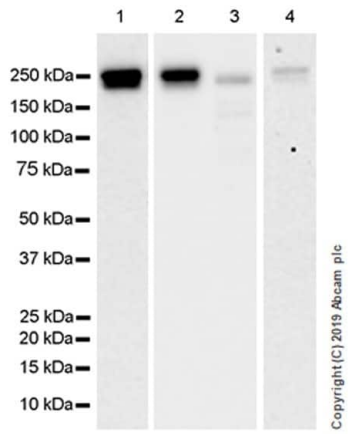
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 181 kDa
Observed band size: 200 kDa

Lanes 1 - 4: Merged signal (red and green). Green - ab240648 observed at 200 kDa. Red - loading control **ab7291** (Mouse anti-Alpha Tubulin [DM1A]) observed at 55 kDa.

ab240648 was shown to react with SMARCA2 / BRM in wild-type HeLa cells in Western blot with loss of signal observed in SMARCA2 knockout cell line **ab265416** (SMARCA2 knockout cell lysate **ab257687**). Wild-type HeLa and SMARCA2 knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3 % milk in TBS-T (0.1 % Tween®) before incubation with ab240648 and **ab7291** (Mouse anti-Alpha Tubulin [DM1A]) overnight at 4 °C at a 1 in 1000 dilution and a 1 in 20000 dilution respectively. Blots were incubated with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 h at room temperature before imaging.



Western blot - Anti-SMARCA2 / BRM antibody [EPR23103-44] (ab240648)

All lanes : Anti-SMARCA2 / BRM antibody [EPR23103-44] (ab240648) at 1/1000 dilution

Lane 1 : HEK-293T (human embryonic kidney epithelial cell) whole cell lysate
Lane 2 : HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate
Lane 3 : MCF7 (human breast adenocarcinoma epithelial cell) whole cell lysate
Lane 4 : Neuro-2a (mouse neuroblastoma neuroblast) whole cell lysate

Lysates/proteins at 20 µg per lane.

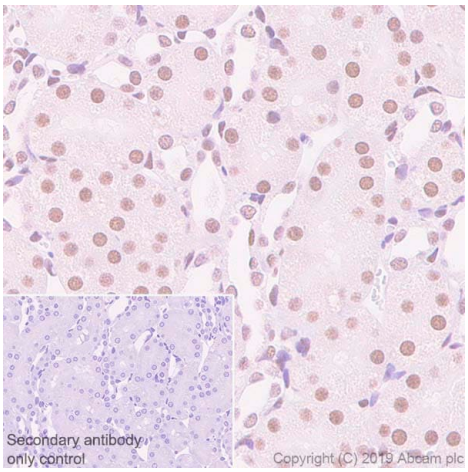
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Predicted band size: 181 kDa
Observed band size: 200 kDa

Blocking and dilution buffer: 5% NFDM/TBST.

Exposure times: Lane 1: 3 minutes; Lanes 2-3: 26 seconds; Lane 4: 3 minutes.

Two isoforms of SMARCA2/BRM are reported in human and mouse species (PMID:21811517).

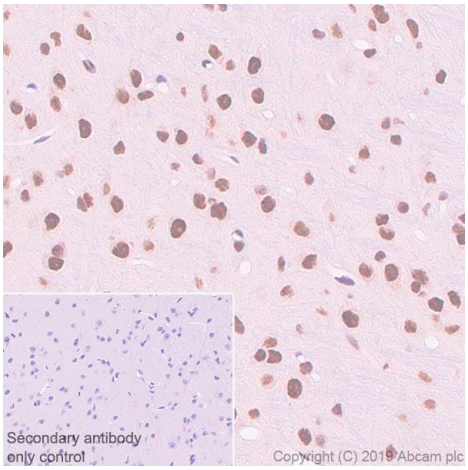


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SMARCA2 / BRM antibody [EPR23103-44] (ab240648)

Immunohistochemical analysis of paraffin-embedded rat kidney tissue labeling SMARCA2/BRM with ab240648 at 1/2000 dilution (0.23 µg/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Nuclear staining on rat kidney. The section was incubated with ab240648 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20mins.

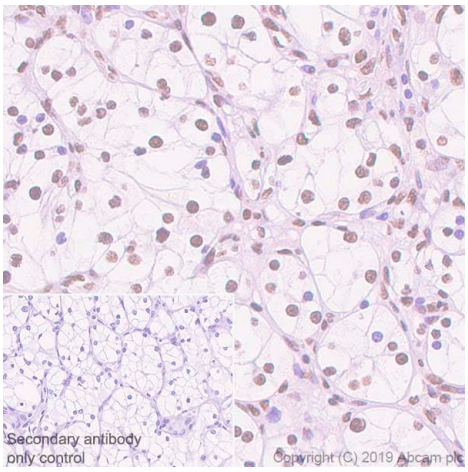


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SMARCA2 / BRM antibody [EPR23103-44] (ab240648)

Immunohistochemical analysis of paraffin-embedded mouse cerebrum tissue labeling SMARCA2/BRM with ab240648 at 1/2000 dilution (0.23 µg/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Nuclear staining on mouse cerebrum. The section was incubated with ab240648 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20mins.

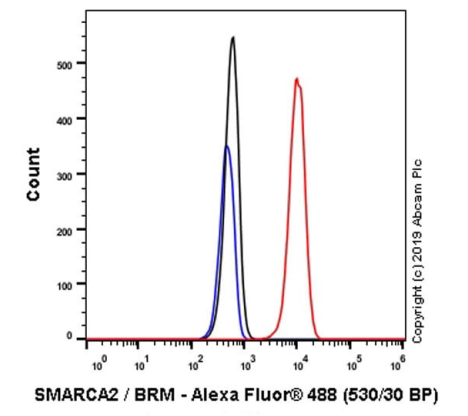


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SMARCA2 / BRM antibody [EPR23103-44] (ab240648)

Immunohistochemical analysis of paraffin-embedded human renal cell carcinoma tissue labeling SMARCA2/BRM with ab240648 at 1/2000 dilution (0.23 µg/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Nuclear staining on human renal cell carcinoma. The section was incubated with ab240648 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with hematoxylin.

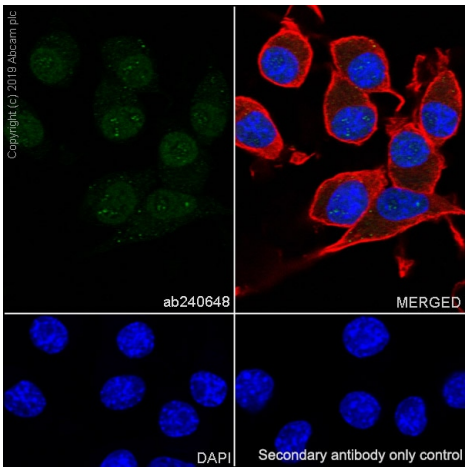
Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20mins.



Flow Cytometry (Intracellular) - Anti-SMARCA2 / BRM antibody [EPR23103-44] (ab240648)

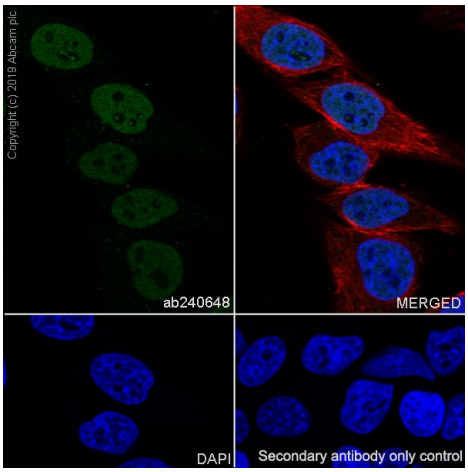
Intracellular flow cytometric analysis of 4% paraformaldehyde fixed, 90% methanol permeabilized HeLa (human cervix adenocarcinoma epithelial cell) cells labeling SMARCA2/BRM with ab240648 at 1/500 dilution (Red) compared with a Rabbit monoclonal IgG (**ab172730**) (Black) isotype control and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) at 1/2000 dilution was used as the secondary antibody.



Immunocytochemistry/ Immunofluorescence - Anti-SMARCA2 / BRM antibody [EPR23103-44] (ab240648)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized Neuro-2a (mouse neuroblastoma neuroblast) cells labeling SMARCA2/BRM with ab240648 at 1/50 dilution, followed by **ab150077** AlexaFluor®488 Goat anti-Rabbit secondary antibody at 1/1000 dilution (Green). Confocal image showing strong nuclear and weak cytoplasmic staining in Neuro-2a cells. **ab195889** Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (Red). The nuclear counterstain was DAPI (Blue).

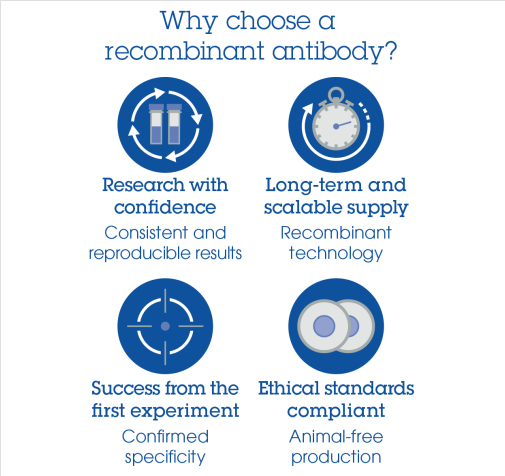
Secondary antibody only control: Secondary antibody is **ab150077** AlexaFluor®488 Goat anti-Rabbit secondary at 1/1000 dilution.



Immunocytochemistry/ Immunofluorescence - Anti-SMARCA2 / BRM antibody [EPR23103-44] (ab240648)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (human cervix adenocarcinoma epithelial cell) cells labeling SMARCA2/BRM with ab240648 at 1/50 dilution, followed by **ab150077** AlexaFluor®488 Goat anti-Rabbit secondary antibody at 1/1000 dilution (Green). Confocal image showing strong nuclear and weak cytoplasmic staining in HeLa cells. **ab195889** Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (Red). The nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is **ab150077** AlexaFluor®488 Goat anti-Rabbit secondary at 1/1000 dilution.



Anti-SMARCA2 / BRM antibody [EPR23103-44]

(ab240648)

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