

## Product datasheet

### Anti-SMARCC1/BAF155 antibody [EPR12389] $\alpha$ b172636

KO **VALIDATED** Recombinant RabMAb

4 Images

#### Overview

Product name	Anti-SMARCC1/BAF155 antibody [EPR12389]
Description	Rabbit monoclonal [EPR12389] to SMARCC1/BAF155
Host species	Rabbit
Tested applications	<b>Suitable for:</b> WB, ICC/IF <b>Unsuitable for:</b> Flow Cyt, IHC-P or IP
Species reactivity	<b>Reacts with:</b> Human
Immunogen	Synthetic peptide within Human SMARCC1/BAF155 aa 1-100 (Cysteine residue). The exact sequence is proprietary. Database link: <a href="#">Q92922</a>
Positive control	NTera2/D1, HeLa, HEK-293 and Jurkat whole cell lysate ( <a href="#">ab7899</a> ). HeLa cells.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

#### Properties

Form	Liquid
Storage instructions	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.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant

<b>Purity</b>	Tissue culture supernatant
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR12389
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab172636 in the following tested applications.

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

Application	Abreviews	Notes
<b>WB</b>		1/1000 - 1/10000. Predicted molecular weight: 123 kDa.
<b>ICC/IF</b>		1/100 - 1/250.

**Application notes** Is unsuitable for Flow Cyt, IHC-P or IP.

## Target

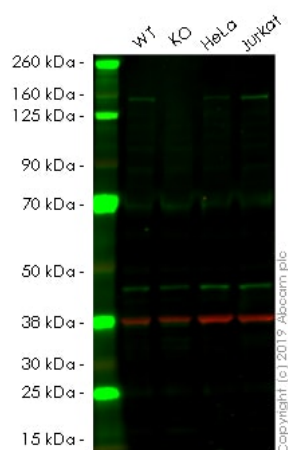
**Function** Involved in transcriptional activation and repression of select genes by chromatin remodeling (alteration of DNA-nucleosome topology). May stimulate the ATPase activity of the catalytic subunit of the complex. Also involved in vitamin D-coupled transcription regulation via its association 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.

**Tissue specificity** Expressed in brain, heart, muscle, placenta, lung, liver, muscle, kidney and pancreas.

**Sequence similarities** Belongs to the SMARCC family.  
Contains 1 SANT domain.  
Contains 1 SWIRM domain.

**Post-translational modifications** 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.

**Cellular localization** Nucleus.



Western blot - Anti-SMARCC1/BAF155 antibody  
[EPR12389] (ab172636)

**All lanes :** Anti-SMARCC1/BAF155 antibody [EPR12389]  
(ab172636) at 1/5000 dilution

**Lane 1 :** Wild-type HEK-293 (Human epithelial cell line from embryonic kidney) whole cell lysate

**Lane 2 :** SMARCC1 knockout HEK-293 (Human epithelial cell line from embryonic kidney) whole cell lysate

**Lane 3 :** HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate

**Lane 4 :** Jurkat (Human T cell leukemia cell line from peripheral blood) whole cell lysate

Lysates/proteins at 20 µg per lane.

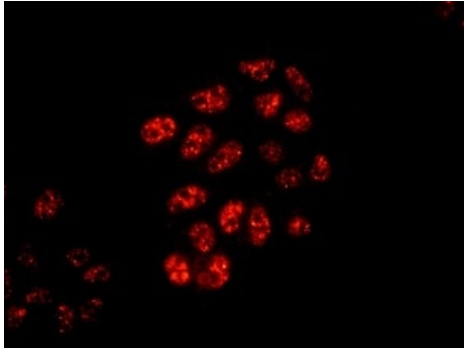
Performed under reducing conditions.

**Predicted band size:** 123 kDa

**Observed band size:** 123 kDa

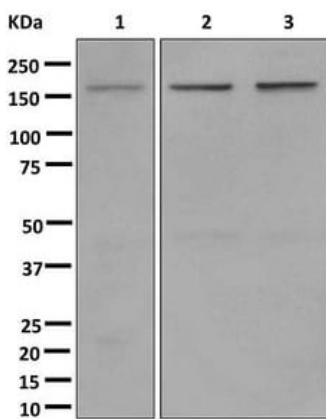
**Lanes 1 -4:** Merged signal (red and green). Green - ab172636 observed at 123 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab172636 was shown to specifically react with SMARCC1 in wild-type HEK-293 cells as signal was lost in SMARCC1 knockout cells. Wild-type and SMARCC1 knockout samples were subjected to SDS-PAGE. The membrane was blocked with 3% Milk. Ab172636 and **ab8245** (Mouse anti GAPDH loading control) were incubated overnight at 4°C at 1/5000 dilution and 1/20000 dilution respectively. Blots were developed 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 1/20000 dilution for 1 hour at room temperature before imaging.



Immunocytochemistry/ Immunofluorescence analysis of HeLa cells labeling SMARCC1/BAF155 with ab172636 at a 1/100 dilution.

Immunocytochemistry/ Immunofluorescence - Anti-SMARCC1/BAF155 antibody [EPR12389] (ab172636)



**All lanes :** Anti-SMARCC1/BAF155 antibody [EPR12389] (ab172636) at 1/1000 dilution

**Lane 1 :** NTERA2/D1 cell lysate

**Lane 2 :** HeLa cell lysate

**Lane 3 :** Jurkat cell lysate

Lysates/proteins at 10 µg per lane.

**Predicted band size:** 123 kDa

Western blot - Anti-SMARCC1/BAF155 antibody [EPR12389] (ab172636)

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-SMARCC1/BAF155 antibody [EPR12389]  
(ab172636)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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