

## Product datasheet

# Anti-BAF170 antibody ab238120

3 Images

### Overview

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<b>Product name</b>	Anti-BAF170 antibody
<b>Description</b>	Rabbit polyclonal to BAF170
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, ChIP
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Recombinant fragment corresponding to Human BAF170 aa 300-650. Database link: <a href="#">Q8TAQ2</a>
<b>Positive control</b>	ChIP: HeLa IP. IHC-P: Human epityphlon and colon cancer tissue.
<b>General notes</b>	<p>Protein previously labeled as SMRC2.</p> <p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications &amp; species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.</p> <p>In preparation for this, we have started to update the applications &amp; species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications &amp; species that this product has been "predicted to work with," however this information is not covered by our Abpromise guarantee.</p> <p>Applications &amp; species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.</p> <p>Please check that this product meets your needs before purchasing. 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, as well as customer reviews and Q&amp;As.</p>

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 50% Glycerol (glycerin, glycerine), PBS
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

Our [Abpromise guarantee](#) covers the use of **ab238120** 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
IHC-P		1/20 - 1/200.
ChIP		Use at an assay dependent concentration.

## Target

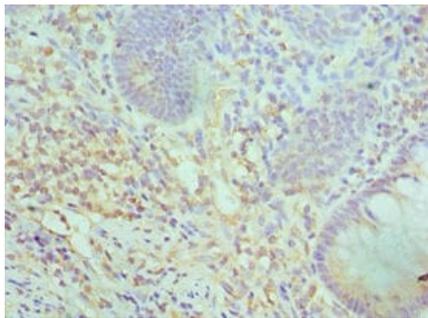
**Function**

Involved in transcriptional activation and repression of select genes by chromatin remodeling (alteration of DNA-nucleosome topology). Can stimulate the ATPase activity of the catalytic subunit of these complexes. May be required for CoREST dependent 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. 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** Ubiquitously expressed.

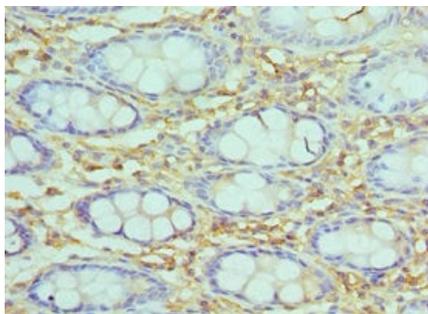
**Sequence similarities** Belongs to the SMARCC family.  
Contains 1 SANT domain.  
Contains 1 SWIRM domain.

**Cellular localization** Nucleus.



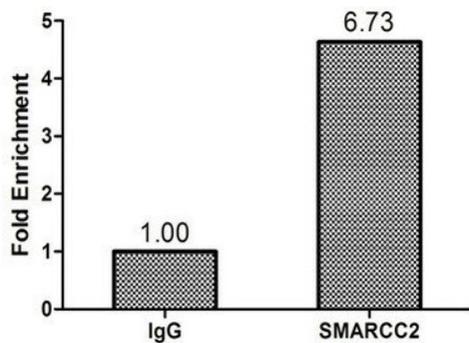
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BAF170 antibody (ab238120)

Paraffin-embedded human colon cancer tissue stained for BAF170 with ab238120 at a 1/100 dilution in immunohistochemical analysis.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BAF170 antibody (ab238120)

Paraffin-embedded human epityphlon tissue stained for BAF170 with ab238120 at a 1/100 dilution in immunohistochemical analysis.



ChIP - Anti-BAF170 antibody (ab238120)

Chromatin Immunoprecipitation HeLa (Human epithelial cell line from cervix adenocarcinoma) ( $1.1 \times 10^6$ ) were cross-linked with formaldehyde, sonicated, and immunoprecipitated with 4  $\mu$ g ab238120 or a control normal rabbit IgG. The resulting ChIP DNA was quantified using real-time PCR with primers against the ESR1 pS2 promoter.

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

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