

Anti-BAF170 antibody ab238120

3 Images

Overview

Product name	Anti-BAF170 antibody
Description	Rabbit polyclonal to BAF170
Host species	Rabbit
Tested applications	Suitable for: IHC-P, ChIP
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment corresponding to Human BAF170 aa 300-650. Database link: Q8TAQ2
Positive control	ChIP: HeLa IP. IHC-P: Human epityphlon and colon cancer tissue.
General notes	<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>

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: 7.30 Preservative: 0.02% Sodium azide Constituents: 50% Glycerol (glycerin, glycerine), PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

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.

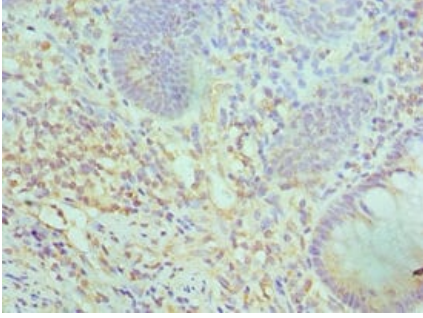
Sequence similarities

Belongs to the SMARCC family.
Contains 1 SANT domain.
Contains 1 SWIRM domain.

Cellular localization

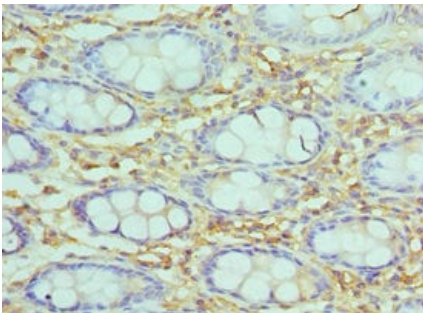
Nucleus.

Images



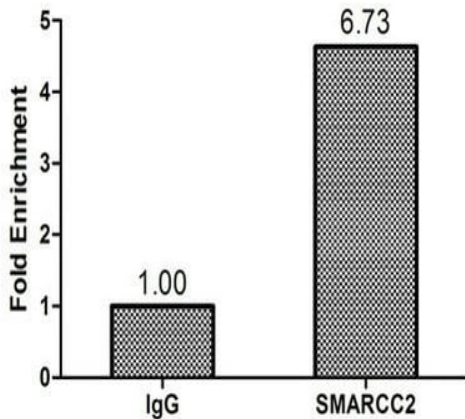
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BAF170 antibody (ab238120)

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) (1.1×10^6) were cross-linked with formaldehyde, sonicated, and immunoprecipitated with 4 μ 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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