

Product datasheet

Anti-BAF57/SMARCE1 antibody ab115512

3 Images

Overview

Product name	Anti-BAF57/SMARCE1 antibody
Description	Goat polyclonal to BAF57/SMARCE1
Host species	Goat
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat, Dog 
Immunogen	Synthetic peptide: PPTDPIPEDEKK with a Cysteine residue linker, corresponding to C terminal amino acids 399-410 of Human BAF57/SMARCE1 (NP_003070.3). Run BLAST with Run BLAST with
Positive control	Human prostate tissue; Jurkat lysate; HEK293 lysate overexpressing BAF57/SMARCE1.
General notes	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. 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

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.
Storage buffer	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 0.5% BSA, 99.48% Tris buffered saline
Purity	Protein G purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab115512 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
WB		Use a concentration of 0.2 - 0.6 µg/ml. Predicted molecular weight: 47 kDa.
IHC-P		Use a concentration of 3.75 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target

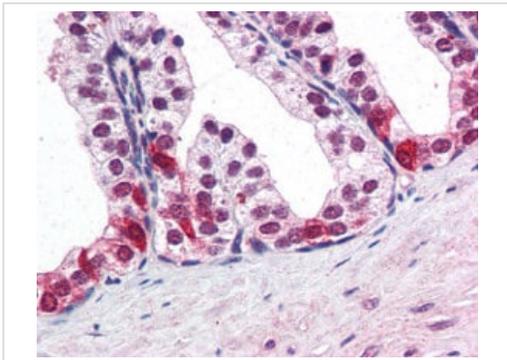
Function Involved in transcriptional activation and repression of select genes by chromatin remodeling (alteration of DNA-nucleosome topology). Belongs to the neural progenitors-specific chromatin remodeling complex (npBAF complex) and the neuron-specific chromatin remodeling complex (nBAF complex). 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 (By similarity). Required for the coactivation of estrogen responsive promoters by Swi/Snf complexes and the SRC/p160 family of histone acetyltransferases (HATs). Also specifically interacts with the CoREST corepressor resulting in 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.

Sequence similarities Contains 1 HMG box DNA-binding domain.

Domain The HMG domain is essential for CD4 silencing and CD8 activation; mutation of this domain blocks thymus development.

Cellular localization Nucleus.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BAF57/SMARCE1 antibody (ab115512)

ab115512 at 3.75ug/ml staining BAF57/SMARCE1 in Human prostate tissue by Immunohistochemistry followed by biotinylated secondary antibody, alkaline phosphatase-streptavidin and chromogen.



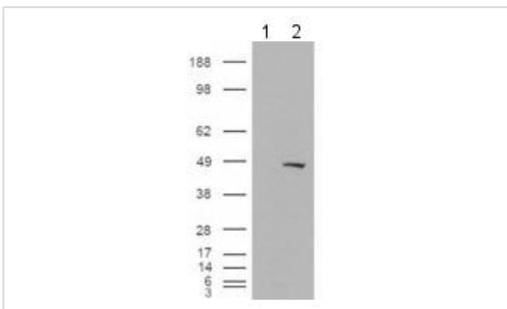
Western blot - Anti-BAF57/SMARCE1 antibody (ab115512)

Anti-BAF57/SMARCE1 antibody (ab115512) at 0.2 µg/ml + Jurkat lysate (in RIPA buffer) at 35 µg

Developed using the ECL technique.

Predicted band size: 47 kDa

Primary incubation: 1 hour



Western blot - Anti-BAF57/SMARCE1 antibody (ab115512)

All lanes : Anti-BAF57/SMARCE1 antibody (ab115512) at 0.6 µg/ml

Lane 1 : HEK293 lysate, mock transfection control

Lane 2 : HEK293 lysate, overexpressing BAF57/SMARCE1

Predicted band size: 47 kDa

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

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