


Anti-BAF57/SMARCE1 antibody [EPR8849] - CHIP Grade ab137081

リコンビナント RabMAb

3 References [画像数 7](#)

製品の概要

製品名	Anti-BAF57/SMARCE1 antibody [EPR8849] - CHIP Grade
製品の詳細	Rabbit monoclonal [EPR8849] to BAF57/SMARCE1 - CHIP Grade
由来種	Rabbit
アプリケーション	適用あり: ChIP, WB, IHC-P, ICC/IF, IP, Flow Cyt (Intra)
種交差性	交差種: Human 交差が予測される動物種: Mouse, Rat 
免疫原	Synthetic peptide within Human BAF57/SMARCE1 aa 350-450. The exact sequence is proprietary.
ポジティブ・コントロール	MCF7, HeLa, Jurkat and Raji cell lysates; Human brain tissue; MCF7 cells. IP: MCF7 cell lysate Flow Cyt (intra): MCF7 cells
特記事項	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 .

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at -20°C.
バッファー	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
精製度	Protein A purified

ポリ/モノ	モノクローナル
クローン名	EPR8849
アイソタイプ	IgG

アプリケーション

The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab137081の使用に適用されます**
 アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
ChIP		Use at an assay dependent concentration.
WB		1/1000 - 1/10000. Predicted molecular weight: 47 kDa.
IHC-P		1/250 - 1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF		1/250 - 1/500.
IP		1/10 - 1/100.
Flow Cyt (Intra)		1/10 - 1/100. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

ターゲット情報

機能

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.

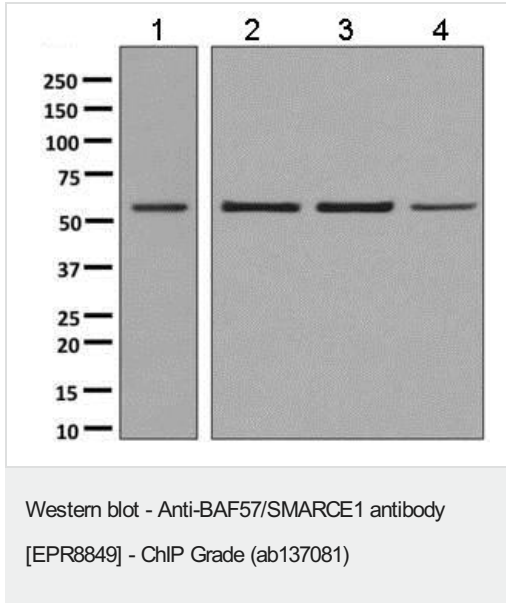
配列類似性

Contains 1 HMG box DNA-binding domain.

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

細胞内局在 Nucleus.

画像



All lanes : Anti-BAF57/SMARCE1 antibody [EPR8849] - ChIP Grade (ab137081) at 1/1000 dilution

Lane 1 : MCF7 cell lysates

Lane 2 : HeLa cell lysates

Lane 3 : Jurkat cell lysates

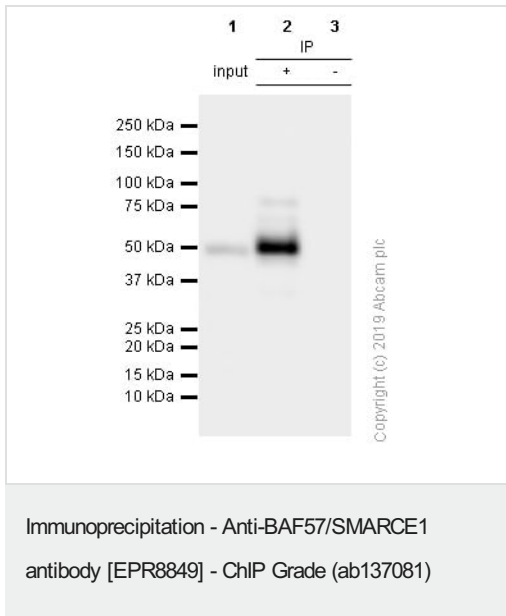
Lane 4 : Raji cell lysates

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : goat anti-rabbit HRP at 1/2000 dilution

Predicted band size: 47 kDa



ab137081 (purified) at 1/20 dilution immunoprecipitating BAF57/SMARCE1 in MCF7 (Human breast adenocarcinoma epithelial cell) whole cell lysate 10 µg.

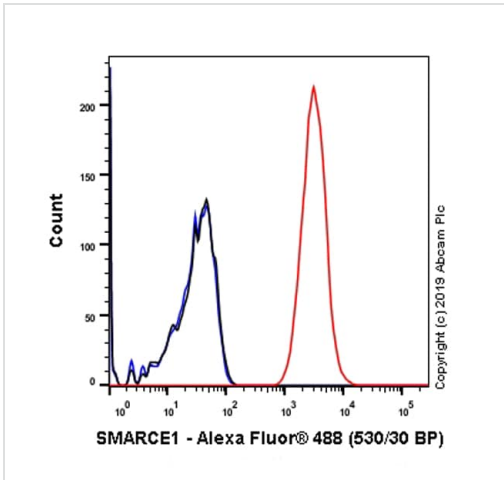
Lane 1 (input): MCF7 (Human breast adenocarcinoma epithelial cell) whole cell lysate 10 µg

Lane 2 (+): ab137081 & MCF7 whole cell lysate

Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab137081 in MCF7 whole cell lysate

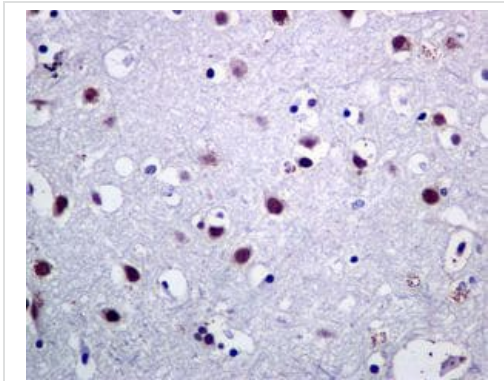
For western blotting, ab137081 at 1/500 dilution (0.02 µg/mL) and veriBlot for IP secondary antibody (HRP) (**ab131366**) at 1/1000 dilution was used.

Blocking and diluting buffer: 5% NFDm /TBST.



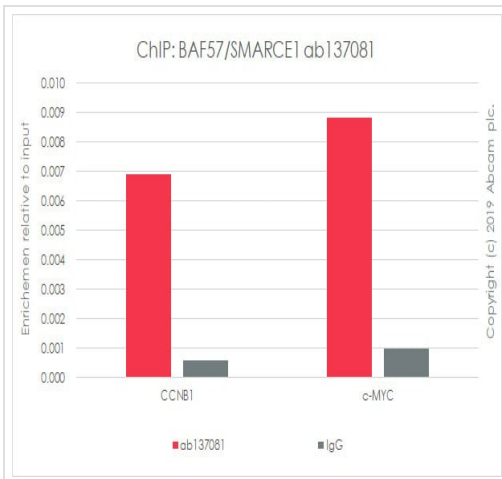
Flow Cytometry (Intracellular) - Anti-BAF57/SMARCE1 antibody [EPR8849] - ChIP Grade (ab137081)

Intracellular Flow Cytometry analysis of MCF7 (Human breast adenocarcinoma epithelial cell) cells labeling BAF57/SMARCE1 with purified ab137081 at 1/100 dilution (10.38µg/mL) (Red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, [ab150077](#)) secondary antibody was used at 1/2000 dilution. Isotype control - Rabbit monoclonal IgG ([ab172730](#)) (black). Unlabeled control - Unlabelled cells (blue).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BAF57/SMARCE1 antibody [EPR8849] - ChIP Grade (ab137081)

Immunohistochemical analysis of paraffin-embedded Human brain tissue labelling BAF57/SMARCE1 with ab137081 at 1/250 dilution. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



ChIP - Anti-BAF57/SMARCE1 antibody [EPR8849] - ChIP Grade (ab137081)

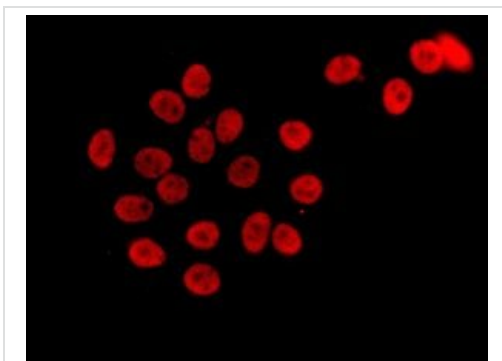
Chromatin was prepared from HeLa cells according to the Abcam Dual X-ChIP protocol*. Cells were fixed with EGS for 30 minutes, then formaldehyde for 10 minutes.

The ChIP was performed with 25 µg of chromatin, 5 µg of ab137081 (red), and 20 µl of Protein A/G sepharose beads. 5 µg of rabbit normal IgG was added to the beads control (gray). The immunoprecipitated DNA was quantified by real time PCR (Sybr green approach).

Primers and probes are located in the first kb of the transcribed region.

*[http://www.abcam.com/resources?](http://www.abcam.com/resources?keywords=X%20ChIP%20protocol)

keywords=X%20ChIP%20protocol



Immunocytochemistry/ Immunofluorescence - Anti-BAF57/SMARCE1 antibody [EPR8849] - ChIP Grade (ab137081)

Immunofluorescent analysis of MCF7 cells labelling BAF57/SMARCE1 with ab137081 at 1/250 dilution.

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-BAF57/SMARCE1 antibody [EPR8849] - ChIP
Grade (ab137081)

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