

Product Datasheet

BAF53A Antibody NB100-61628

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

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NB100-61628

BAF53A Antibody

Product Information	
Unit Size	0.1 ml
Concentration	0.2 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	TBS and 0.1% BSA
Target Molecular Weight	47 kDa

Product Description	
Description	Novus Biologicals Rabbit BAF53A Antibody (NB100-61628) is a polyclonal antibody validated for use in IHC, WB, ICC/IF and Simple Western. Anti-BAF53A Antibody: Cited in 12 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	86
Gene Symbol	ACTL6A
Species	Human, Mouse
Immunogen	The immunogen recognized by this antibody maps to a region between residue 25 and 75 of human BRG1-associated factor, 53 kDa subunit A using the numbering given in entry NP_004292.1 (GeneID 86).

Product Application Details	
Applications	Western Blot, Simple Western, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation (Negative)
Recommended Dilutions	Western Blot 1:2000-1:10000, Simple Western 1:40, Immunohistochemistry 1:100-1:500, Immunocytochemistry/ Immunofluorescence 1:50-1:500, Immunohistochemistry-Paraffin 1:100-1:500, Immunoprecipitation (Negative)
Application Notes	Epitope retrieval with citrate buffer pH6.0 is recommended for FFPE tissue sections. In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. See Simple Western Antibody Database for Simple Western validation: Tested in NIH-3T3 lysate 0.5 mg/mL, separated by Size, antibody dilution of 1:40, apparent MW was 54 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue. ICC/IF reactivity reported in (PMID: 23395444). Use in IHC reported in scientific literature (PMID:33469301)

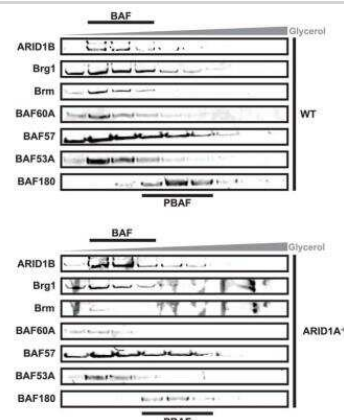


Images

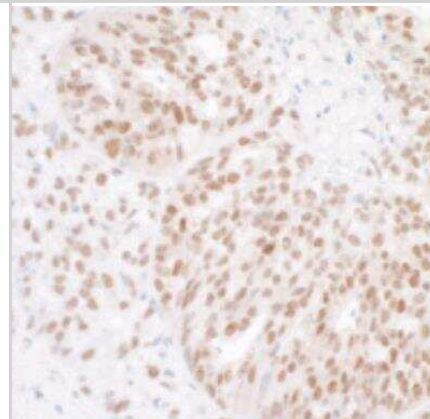
Simple Western: BAF53A Antibody [NB100-61628] - Simple Western lane view shows a specific band for BAF53A in 0.5 mg/ml of NIH-3T3 lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



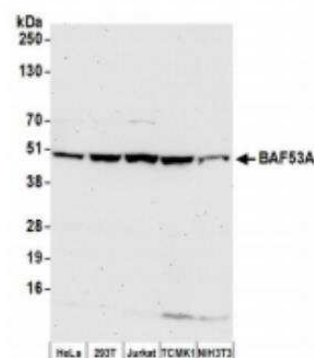
Western Blot: BAF53A Antibody [NB100-61628] - Western blot of WT and ARID1A^{-/-} HCT116 nuclear extracts separated by glycerol gradient centrifugation. BAF53A antibody (NB100-61628) used for blotting. Representative of three biological replicates. Image collected and cropped by CiteAb from the following publication (<https://elifesciences.org/articles/30506#content>) licensed under a CC-BY license.



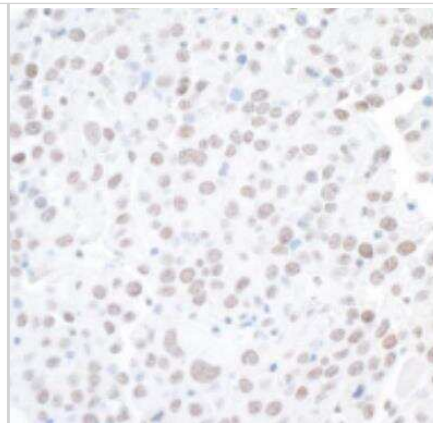
Immunohistochemistry-Paraffin: BAF53A Antibody [NB100-61628] - Human ovarian carcinoma. Antibody: Affinity purified rabbit anti-BAF53A used at a dilution of 1:200 (1ug/ml). Detection: DAB



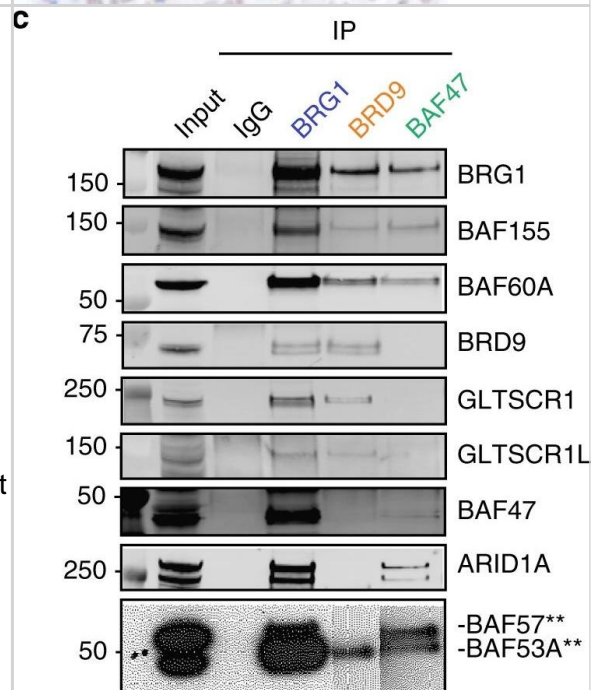
Western Blot: BAF53A Antibody [NB100-61628] - Whole cell lysate (50 ug) from HeLa, HEK293T, Jurkat, mouse TCMK-1, and mouse NIH 3T3 cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-BAF53A antibody used for WB at 0.04 ug/ml. Detection: Chemiluminescence with an exposure time of 75 seconds.



Immunohistochemistry-Paraffin: BAF53A Antibody [NB100-61628] - Mouse renal cell carcinoma. Antibody: Affinity purified rabbit anti-BAF53A used at a dilution of 1:200 (1ug/ml). Detection: DAB



Western Blot: BAF53A Antibody [NB100-61628] - BRD9 defines a distinct, non-canonical BAF complex. a Immunoprecipitation (IP)-mass spectrometry using BRD9 or IgG antibody from mouse ESCs. The plot shows the spectral count fold change in BRD9 IP relative to IgG & the corresponding AC test p values, calculated with two technical replicates using PatternLab. In orange are proteins that satisfy FC 2, AC test $p < 0.05$. b Immunoblotting analysis of fractions after mouse ESC nuclear lysates were subjected to a density sedimentation assay in 10–30% glycerol gradient. LMW & HMW indicate lower & higher molecular weights, respectively. Nonspecific bands are marked with an asterisk. Molecular weights from ladder are indicated. c Immunoprecipitation (IP) experiments from mouse ESC nuclear lysates using antibodies against BRG1, BRD9, & BAF47. Blots developed using chemiluminescence are marked with double asterisks; each IP was taken from a different exposure. d Depletion IP experiment from ESCs using antibodies against BRG1 or BAF155. Each lane shows the remaining proteins after each successive IP, labeled 1 through 4. e IP experiment from ESCs using antibodies against IgG or BRD9, which was incubated in increasing concentration of urea. f Schematic of the esBAF, GBAF, & PBAF complexes in mouse ESCs. Colored in orange, pink, & mustard yellow are subunits that define each individual complex. In green is the enzymatic component, BRG1. Source data are provided as a Source Data file Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/30510198>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Wischhof L, Lee HM, Tutas J et al. BCL7A-containing SWI/SNF/BAF complexes modulate mitochondrial bioenergetics during neural progenitor differentiation *The EMBO Journal* 2022-12-01 [PMID: 36305367] (Immunohistochemistry, Western Blot, Immunocytochemistry/ Immunofluorescence, Human)

Gao F, Elliott NJ, Ho J, Sharp A et al. Heterozygous Mutations in SMARCA2 Reprogram the Enhancer Landscape by Global Retargeting of SMARCA4 *Mol Cell* 2019-08-04 [PMID: 31375262]

Wendy Wenderski, Lu Wang, Andrey Krokhotin, Jessica J. Walsh, Hongjie Li, Hirotaka Shoji, Shereen Ghosh, Renee D. George, Erik L. Miller, Laura Elias, Mark A. Gillespie, Esther Y. Son, Brett T. Staahl, Seung Tae Baek, Valentina Stanley, Cynthia Moncada, Zohar Shipony, Sara B. Linker, Maria C. N. Marchetto, Fred H. Gage, Dillon Chen, Tipu Sultan, Maha S. Zaki, Jeffrey A. Ranish, Tsuyoshi Miyakawa, Liqun Luo, Robert C. Malenka, Gerald R. Crabtree, Joseph G. Gleeson Loss of the neural-specific BAF subunit ACTL6B relieves repression of early response genes and causes recessive autism *Proceedings of the National Academy of Sciences of the United States of America* 2020-05-05 [PMID: 32312822]

Tsai E Mechanisms of Epigenetic Regulation in Response to Physical Signals during Myelination *Glia* 2019-02-09 [PMID: 30734358]

Chang CY, Shipony Z, Lin SG Et al. Increased ACTL6A occupancy within mSWI/SNF chromatin remodelers drives human squamous cell carcinoma *Molecular cell* 2021-10-19 [PMID: 34687603]

Braun S, Petrova R, Tang J et al. The npBAF to nBAF Chromatin Switch Regulates Cell Cycle Exit in the Developing Mammalian Cortex *Genes Dev* 2021-02-19 [PMID: 33602870]

Li RZ, Li YY, Qin H, Li SS ACTL6A Promotes the Proliferation of Esophageal Squamous Cell Carcinoma Cells and Correlates with Poor Clinical Outcomes *OncoTargets and therapy* 2021-01-13 [PMID: 33469301] (WB, IF/IHC, Human)

Malik S, Oshima M, Roy N et al. SMARCA4 supports the oncogenic landscape of KRAS-driven lung tumors *bioRxiv* 2020-01-01 (WB, Human, Mouse)

Gatchalian J, Malik S, Ho J et al. A non-canonical BRD9-containing BAF chromatin remodeling complex regulates naive pluripotency in mouse embryonic stem cells *Nat Commun* 2018-12-03 [PMID: 30510198] (WB, Mouse)

Kelso TWR, Porter DK, Amaral ML et al. Chromatin accessibility underlies synthetic lethality of SWI/SNF subunits in ARID1A-mutant cancers. *Elife*. 2017-10-02 [PMID: 28967863] (WB, Human)

Miller EL, Hargreaves DC, Kadoch C et al. TOP2 synergizes with BAF chromatin remodeling for both resolution and formation of facultative heterochromatin. *Nat. Struct. Mol. Biol.* 2017-02-27 [PMID: 28250416]

Staahl BT, Tang J, Wu W et al. Kinetic Analysis of npBAF to nBAF Switching Reveals Exchange of SS18 with CREST and Integration with Neural Developmental Pathways. *J Neurosci* 2013-06-19 [PMID: 23785148] (WB, ICC/IF, Human, Mouse)

More publications at <http://www.novusbio.com/NB100-61628>





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Products Related to NB100-61628

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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