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 | |
| 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, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, 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 <u>Simple Western Antibody Database</u> 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) |

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Publications

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]

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]

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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Novus Biologicals USA

10730 E. Briarwood Avenue Centennial, CO 80112 USA Phone: 303.730.1950 Toll Free: 1.888.506.6887 Fax: 303.730.1966 nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave Toronto, ON M8Z 4E6 Canada Phone: 905.827.6400 Toll Free: 855.668.8722 Fax: 905.827.6402 canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane Abingdon Science Park Abingdon, OX14 3NB, United Kingdom Phone: (44) (0) 1235 529449 Free Phone: 0800 37 34 15 Fax: (44) (0) 1235 533420 info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com Technical Support: nb-technical@biotechne.com Orders: nb-customerservice@bio-techne.com General: novus@novusbio.com

Products Related to NB100-61628

| HAF008 | Goat anti-Rabbit IgG Secondary Antibody [HRP] |
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| NB7160 | Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP] |
| NBP2-24891 | Rabbit IgG Isotype Control |
| H00000086-P02-10ug | Recombinant Human BAF53A GST (N-Term) Protein |

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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