

Anti-ARID1B / BRIGHT Antibody (clone 2D2)
Mouse Anti Human Monoclonal Antibody
Catalog # ALS17902

Specification

Anti-ARID1B / BRIGHT Antibody (clone 2D2) - Product Information

Application	WB, IHC-P, IF, E
Primary Accession	Q8NFD5
Predicted	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2b,k
Calculated MW	243943
Dilution	WB~~1:1000 IHC-P~~N/A IF~~1:50~200 E~~N/A

Anti-ARID1B / BRIGHT Antibody (clone 2D2) - Additional Information

Gene ID 57492

Alias Symbol ARID1B

Other Names

ARID1B, 6A3-5, BRG1-associated factor 250b, BRG1-binding protein ELD/OSA1, BRIGHT, DAN15, ELD/OSA1, ELD (eyelid)/OSA protein, KIAA1235, MRD12, HOsa2, OSA2, Osa homolog 2, RP11-419L10.1, BAF250B, BRG1-binding protein hELD/OSA1, p250R

Target/Specificity

Human ARID1B

Reconstitution & Storage

Protein A purified

Precautions

Anti-ARID1B / BRIGHT Antibody (clone 2D2) is for research use only and not for use in diagnostic or therapeutic procedures.

Anti-ARID1B / BRIGHT Antibody (clone 2D2) - Protein Information

Name ARID1B ([HGNC:18040](#))

Function

Involved in transcriptional activation and repression of select genes by chromatin remodeling (alteration of DNA-nucleosome topology). Component of SWI/SNF chromatin remodeling complexes that carry out key enzymatic activities, changing chromatin structure by altering DNA-histone contacts within a nucleosome in an ATP-dependent manner. 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 postmitotic 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 postmitotic 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). Binds DNA non-specifically (PubMed: [14982958](http://www.uniprot.org/citations/14982958), PubMed: [15170388](http://www.uniprot.org/citations/15170388)).

Cellular Location

Nucleus {ECO:0000255|PROSITE-ProRule:PRU00355, ECO:0000269|PubMed:11988099}

Tissue Location

Widely expressed with high levels in heart, skeletal muscle and kidney.

Anti-ARID1B / BRIGHT Antibody (clone 2D2) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-ARID1B / BRIGHT Antibody (clone 2D2) - Images