

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

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

Application	WB, IHC-P, IF, E
Primary Accession	<a href="#">Q8NFD5</a>
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:<a href="http://www.uniprot.org/citations/14982958" target="\_blank">14982958</a>, PubMed:<a href="http://www.uniprot.org/citations/15170388" target="\_blank">15170388</a>).

**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**