

Anti-ARID1B / BRIGHT Antibody (clone 2D2)

Mouse Anti Human Monoclonal Antibody

Catalog # ALS17902

Product Information

Application	WB, IHC-P, IF, E
Primary Accession	Q8NFD5
Predicted	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2b,k
Clone Names	2D2
Calculated MW	243943
Concentration (mg/ml)	0.5 mg/ml

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.

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](#), PubMed:[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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.