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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**

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, 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.

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 Cytomety
- Cell Culture

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