

# KD-Validated Anti-ARID1A Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI1318

## Product Information

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| <b>Application</b>       | WB, FC, ICC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Primary Accession</b> | <a href="#">O14497</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Reactivity</b>        | Rat, Human, Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Clonality</b>         | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Isotype</b>           | Rabbit IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Clone Names</b>       | 23GB3230                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Calculated MW</b>     | 242045                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Gene Name</b>         | ARID1A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Aliases</b>           | ARID1A; AT-Rich Interaction Domain 1A; BAF250; B120; SMARCF1; P270; SWI/SNF-Related, Matrix-Associated, Actin-Dependent Regulator Of Chromatin Subfamily F Member 1; AT-Rich Interactive Domain-Containing Protein 1A; AT Rich Interactive Domain 1A (SWI-Like); ARID Domain-Containing Protein 1A; SWI/SNF Complex Protein P270; BRG1-Associated Factor 250a; SWI-Like Protein; Osa Homolog 1; BAF250a; BAF250A; C1orf4; HOSA1; OSA1; HELD; SWI/SNF Related, Matrix Associated, Actin Dependent Regulator Of Chromatin, Subfamily F, Member 1; AT Rich Interactive Domain 1A (SWI- Like); Chromatin Remodeling Factor P250; BRG1-Associated Factor 250; OSA1 Nuclear Protein; Brain Protein 120; C1orf4; C1ORF4; C1ORF4; BM029; MRD14; CSS2; ELD |
| <b>Immunogen</b>         | A synthesized peptide derived from human ARID1A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

## Additional Information

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| <b>Gene ID</b>     | 8289                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Other Names</b> | AT-rich interactive domain-containing protein 1A, ARID domain-containing protein 1A, B120, BRG1-associated factor 250, BAF250, BRG1-associated factor 250a, BAF250A, Osa homolog 1, hOSA1, SWI-like protein, SWI/SNF complex protein p270, SWI/SNF-related, matrix-associated, actin-dependent regulator of chromatin subfamily F member 1, hELD, ARID1A, BAF250, BAF250A, C1orf4, OSA1, SMARCF1 |

## Protein Information

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| <b>Name</b>     | ARID1A                                                                                                                                                                                                                                                                                            |
| <b>Synonyms</b> | BAF250, BAF250A, C1orf4, OSA1, SMARCF1                                                                                                                                                                                                                                                            |
| <b>Function</b> | 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. Binds DNA non-specifically. 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).

**Cellular Location**

Nucleus {ECO:0000255 | PROSITE-ProRule:PRU00355, ECO:0000269 | PubMed:11318604, ECO:0000269 | PubMed:26614907}

**Tissue Location**

Highly expressed in spleen, thymus, prostate, testis, ovary, small intestine, colon, and PBL, and at a much lower level in heart, brain, placenta, lung, liver, skeletal muscle, kidney, and pancreas.

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