

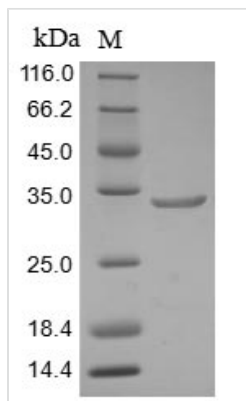


Recombinant Human AT-rich interactive domain-containing protein 1A (ARID1A), partial

Product Code	CSB-BP002058HU1
Relevance	Involved in transcriptional activation and repression of select genes by chromatin remodeling (alteration of DNA-nucleosome topology). 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 post-mitotic 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 post-mitotic 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
Abbreviation	Recombinant Human ARID1A protein, partial
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	O14497
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	SLAKRCVSVSNTIRSLSFVPGNDFEMSKHPGLLLILGKLILLHHKHPERKQAPLT YEKEEEQDQGVSCNKVEWWDCLEMLRENTLVTLANISGQLDLSPYPESICL PVL DGLLHWAVCPSAEAQDPFSTLGPNAVLS PQRLVLETLSKLSIQDNNVDLIL ATPPFSRLEKLYSTMVRFSLDRKNPVCREMAVVLLANLAQGDSLAARAI AVQK GSIGNLLGFLEDSLAAATQFQQSQASLLHMQNPPFEPTSVDMM
Research Area	Cancer
Source	Baculovirus
Target Names	ARID1A
Protein Names	B120 BRG1-associated factor 250 Short name: BAF250 BRG1-associated factor 250a Short name: BAF250A Osa homolog 1 Short name: hOSA1 SWI-like protein SWI/SNF complex protein p270 SWI/SNF-related, matrix-associated, actin-dependent regulator of chromatin sub



Expression Region	1976-2231aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-tagged and C-terminal Myc-tagged
Mol. Weight	32.4 kDa
Protein Length	Partial

Image


(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Reconstitution We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.