

Recombinant Human ARID1A Protein (1976-2231 aa), His-Myc-tagged

Cat. No. ARID1A-2488H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ARID1A Protein (1976-2231 aa) is produced by E. coli expression system. This protein is fused with a 10xHis tag at the N-terminal and a Myc tag at the C-terminal. Research Area: Cancer. Protein Description: Partial.
Species	Human
Source	E.coli
ProteinLength	1976-2231 aa
Description	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

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	cells. The nBAF complex along with CREST plays a role regulating the activity of genes essential for dendrite growth.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	33.4 kDa
AA Sequence	SLAKRCVCVSNITRSLSFVPGNDFEMSKHPGLLLILGKLILLHHKHPERKQAPLTYEK EEEQDQGVSCNKVEWWDCLEMLRENTLVTLANISGQLDLSPYPESICLPVLDGLL HWAVCPSAEAQDPFSTLGPNVLSLQRLVLETLSKLSIQDNNVDLILATPPFSRLEKL YSTMVRFSLDRKNPVCREMAVVLLANLAQGDSLAARAIAVQKGSIGNLLGFLEDSL ATQFQQSQASLLHMQNPPFEPTSVDMM
Purity	> 85% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
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 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA will be sent along with the products. Please refer to it for detailed information.

GENE INFORMATION

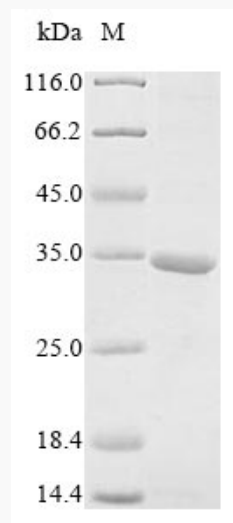
Gene Name	ARID1A AT rich interactive domain 1A (SWI-like) [Homo sapiens]
Official Symbol	ARID1A

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Synonyms	ARID1A; B120; BAF250; BAF250a; C10rf4; P270; osa homolog 1; SWI-like protein; ELD; OSA1; hELD; BM029; hOSA1; C1orf4; SMARCF1;
Gene ID	8289
mRNA Refseq	NM_006015
Protein Refseq	NP_006006
MIM	603024
UniProt ID	O14497



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

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