

Recombinant Human SMARCA2 Protein, His-FLAG-tagged

Cat. No. SMARCA2-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SMARCA2 protein with His-FLAG-tag was expressed in baculovirus-insect cells.
Species	Human
Source	Insect Cells
ProteinLength	1-1590 aa
Description	The protein encoded by this gene is a member of the SWI/SNF family of proteins and is highly similar to the brahma protein of Drosophila. Members of this family have helicase and ATPase activities and are thought to regulate transcription of certain genes by altering the chromatin structure around those genes. The encoded protein is part of the large ATP-dependent chromatin remodeling complex SNF/SWI, which is required for transcriptional activation of genes normally repressed by chromatin. Alternatively spliced transcript variants encoding different isoforms have been found for this gene, which contains a trinucleotide repeat (CAG) length polymorphism.
Molecular Mass	181 kDa
AA Sequence	MSTPTDPGAMPHPGPSPGPGSPGPILGPSPGPGSPGSGVHSMMGPSGPPSVS HPMPTMGSTDFPQEGMHQMHKPIDGIHDKGIVEDIHCGSMKGTGMRPPHPGMGPP QSPMDQHSQGYMSPHPSPLGAPEHVSSPMSGGGPTPPQMPPSQPGALIPGDPQA MSQPNRGPSPFSPVQLHQLRAQILAYKMLARGQPLPETLQLAVQGKRTLPLGLQQQ QQQQQQQQQQQQQQQQQQQQQQPPQPPQPPQTQQQQQPALVNYNRPSGPGPEL

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SGPSTPQKLPVPAPGGRPSAPPAAAAQPPAAAVPGPSVPQPAPGQPSVLQLQKQ
 QSRISPIQKPQGLDPVEILQEREYRLQARIAHRIQELENLPGSLPPDLRTKATVELKAL
 RLLNFQRQLRQEVVACMRRDTTLETALNSKAYKRSKRQTLREARMTEKLEKQQKIE
 QERKRRQKHQEYLSILQHAKDFKEYHRSVAGKIQKLSKAVATWHANTEREQKKET
 ERIEKERMRLMAEDEEGYRKLIDQKKDRRLAYLLQQTDEYVANLTNLVWEHKQAQ
 AAKEKKKRRRRKKKAEENAEGGESALGPDGEPIDESSQMSDLPVKVTHTETGKVLF
 GPEAPKASQLDAWLEMNPGYEVAPRSDSEESDSYEEEDEEEESSRQETEEKILLD
 PNSEEVSEKDAKQIIETAKQDQDDEYSMQYSARGSQSYTTVAHAISERVEKQSALLI
 NGTLKHYQLQGLEWMVSLYNNNLNGILADEMGLGKTIQTIALITYLMEHKRLNGPYLII
 VPLSTLSNWTYEFDKWAPSVVKISYKGTAMRRSLVPQLRSGKFNVLLTTYEYIIKDK
 HILAKIRWKYMIVDEGHRMKNHHCKLTQVLNTHYVAPRRILLTGTPQLNKLPELWALL
 NFLLPITFKSCSTFEQWFNAPFAMTGERVDLNEEETILIIRRLHKVLRPFLLRRLKKEV
 ESQLEKVEYVIKCDMSALQKILYRHMQAAGILLTDGSEKDKKGKGGAKTLMNTIMQ
 LRKICNHPYMFQHIEESFAEHLGYSNGVINGAELYRASGKFELLDRIPLKLRATNHRV
 LLFCQMTSLMTIMEDYFAFRNFLYLRLDGTTKSEDRAALLKKFNEPGSQYFIFLLSTR
 AGGLGLNLQAADTVVIFDSDWNPHQDLQAQDRAHRIGQQNEVRVLRRLCTVNSVEEK
 ILAAAKYKLNVDQKVIQAGMFDQKSSSHERRAFLQAILEHEEENEEDEVPDDETLN
 QMIARREEEFDLFMRMDMDRRREDARNPKRKPRLMEEDELPSWIIKDDAEVERLTC
 EEEEEKIFGRGSRQRRDQVSDALTEKQWLRAIEDGNLEEMEEVRLKKRKRNRNV
 DKDPAKEDVEKAKKRRGRPPAEKLSNPPKLTQMNAIIDTVINYKDSSGRQLSEVFI
 QLPSRKELPEYYELIRKPVDFKKIKERIRNHKYRSLGDLEKDVMLLCHNAQTFNLEGS
 QIYEDSIVLQSVFKSARQKIAKEEESEDESEEEEEEEDEESESEAKSVKVKIKLNKK
 DDKGRDKGKGKRPNRGKAKPVVSDFSDDEEQDEREQSESGTDDDEHHHHHHHDY
 KDDDDK

Purity > 50% by SDS-PAGE

Storage Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

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Concentration 0.05 mg/mL by BCA

Storage Buffer Sterile 25mM Hepes, 0.1M EDTA, 10% glycerol, 350mM NaCl, pH7.6

GENE INFORMATION

Gene Name SMARCA2 SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2 [Homo sapiens (human)]

Official Symbol SMARCA2

Synonyms SMARCA2; SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2; SNF2L2; probable global transcription activator SNF2L2; BAF190; BRM; hBRM; hSNF2a; SNF2; SNF2LA; Sth1p; SWI2; BAF190B; SNF2-alpha; protein brahma homolog; SNF2/SWI2-like protein 2; BRG1-associated factor 190B; ATP-dependent helicase SMARCA2; sucrose nonfermenting 2-like protein 2; global transcription activator homologous sequence; SWI/SNF-related matrix-associated actin-dependent regulator of chromatin a2; FLJ36757; MGC74511;

Gene ID 6595

mRNA Refseq NM_003070

Protein Refseq NP_003061

MIM 600014

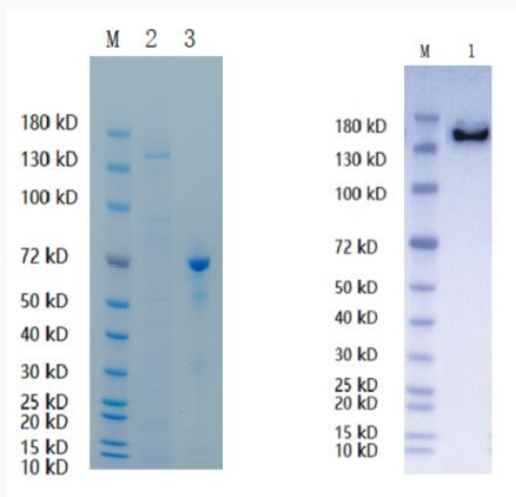
UniProt ID P51531

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**Reducing 12% SDS-
PAGE (CBB stained)
and WB (Anti-His
Mouse Monoclonal
Antibody) analysis
profiles of purified
SMARCA2**



1. SMARCA2
2. BSA

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