

Active Recombinant Human SMARCA2, His&FLAG-tagged

Cat. No. SMARCA2-71H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SMARCA2 corresponding to amino acids 1367-1511 that contains the bromodomain sequences of SMARCA2 / BRM (accession number NP_003061.3) was expressed in E. coli and contains an N-terminal His tag and C-terminal FLAG tag with an observed molecular weight of 22.96 kDa.
Species	Human
Source	E.coli
ProteinLength	1367-1511 a.a.
Description	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2 (SMARCA2), also known as BRM, is a member of the SWI/SNF family of proteins and is 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. SMARCA2 contains bromodomains for interaction with other proteins. The bromodomain functions as a "reader" of epigenetic histone marks and regulates chromatin structure and gene expression by linking associated proteins to the recognized acetylated nucleosomal targets.
Form	25 mM HEPES pH 7.5, 150 mM NaCl and 5% glycerol.
Bio-activity	It shows binding specificity for acetylated H3K9, H3K14, H3K9/14, H4K8, H4K12, H4K16 and H4K5/8/12/16.

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Applications	Binding assays, inhibitor screening, and selectivity profiling.
Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80°C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.
Concentration	5.8 mg/ml
GENE INFORMATION	
Gene Name	SMARCA2 SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2 [Homo sapiens]
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

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UniProt ID	P51531
Chromosome Location	9p24.3
Pathway	C-MYB transcription factor network, organism-specific biosystem; E2F transcription factor network, organism-specific biosystem; Regulation of Androgen receptor activity, organism-specific biosystem;
Function	ATP binding; DNA binding; DNA-dependent ATPase activity; RNA polymerase II transcription coactivator activity; helicase activity; hydrolase activity, acting on acid anhydrides, in phosphorus-containing anhydrides; nucleotide binding; protein binding; transcription coactivator activity; transcription regulatory region DNA binding;

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