

Recombinant Human SMARCA2 Protein (1367-1511), N-GST tagged

Cat. No. SMARCA2-13H Lot. No. (See product label)

SPECIFICATION

Product Overview	The peptide 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 GST-Tag with an observed molecular weight of 44.2 kDa. It shows binding specificity for acetylated H3K9, H3K14, H3K9/14, H4K8, H4K12, H4K16 and H4K5/8/12/16.
Species	Human
Source	E.coli
ProteinLength	1367-1511
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	44.2 kDa
Purity	The recombinant protein is >95% pure by SDS-PAGE.

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Applications	Recombinant SMARCA2/BRM (1367-1511), GST-Tag is suitable for use in binding assays, inhibitor screening, and selectivity profiling.
Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 centigrade to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.
Concentration	3.5 mg/mL
Storage Buffer	25 mM Tris pH 7.4, 150 mM NaCl and 5% glycerol
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; BIS; BRM; SNF2; SWI2; hBRM; NCBRS; Sth1p; BAF190; SNF2L2; SNF2LA; hSNF2a; probable global transcription activator SNF2L2; ATP-dependent helicase SMARCA2; BAF190B; BRG1-associated factor 190B; SNF2-alpha; SNF2/SWI2-like protein 2; SWI/SNF-related matrix-associated actin-dependent regulator of chromatin a2; brahma homolog; global transcription activator homologous sequence; protein brahma homolog; putative global transcription activator SNF2L2; sucrose nonfermenting 2-like protein 2
Gene ID	6595
mRNA Refseq	NM_003070

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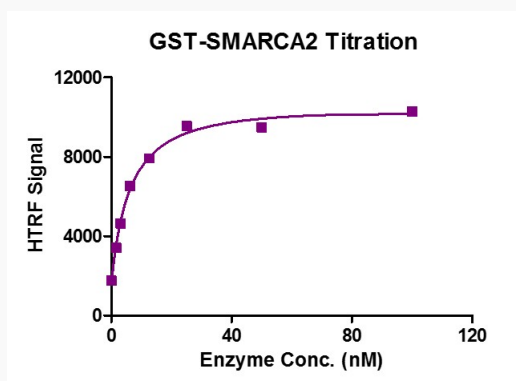
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Protein Refseq NP_003061

MIM 600014

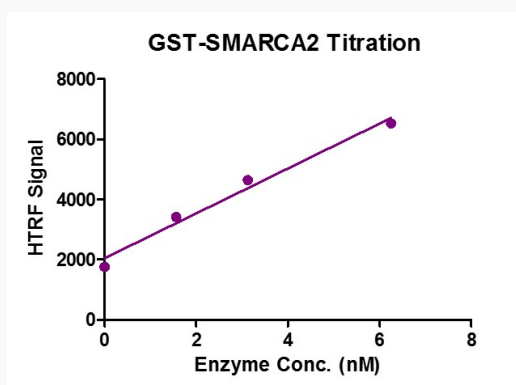
UniProt ID P51531

**Recombinant
SMARCA2/BRM
(1367-1511) HTRF
activity assay**



3.3 μ M histone peptide H4K5/8/12/16(4Ac) was incubated with SMARCA2/BRM (1367-1511) protein in reaction buffer including 50 mM HEPES-NaOH pH 7.0, 0.1% BSA for 1 hour at room temperature. Anti-GST antibody was used to detect reaction products.

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SDS-PAGE

SMARCA2 (1367-1511)

