

Recombinant Human SMARCA2 Protein (636-1131), N-FLAG tagged

Cat. No. SMARCA2-11H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant SMARCA2 protein that includes amino acids 636-1131 of human SMARCA2 protein (accession number NP_001276325.1) was expressed in a baculovirus expression system, and contains an N-terminal FLAG tag.
Species	Human
Source	Insect Cells
ProteinLength	636-1131
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	82.5 kDa
Purity	≥ 90%
Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80

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centigrade to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.

Concentration 0.6 µg/µL

Storage Buffer 25 mM HEPES-NaOH pH 7.5, 300 mM NaCl, 10% glycerol, 0.04% Triton X-100, 0.5 mM TCEP

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_001289396

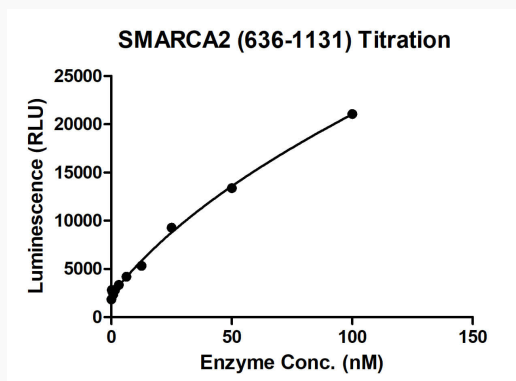
Protein Refseq NP_001276325

MIM 600014

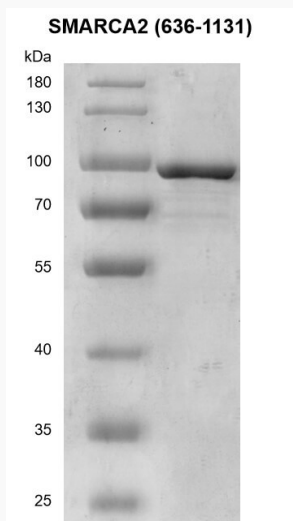
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UniProt ID
P51531
**ADP-Glo assay for
SMARCA (636-1131)
activity**


100 μ M ATP and 10 nM DNA was incubated with different concentrations of SMARCA2 (636-1131) protein in a 10 μ l reaction system containing 20 mM HEPES pH 7.5, 10 mM MgCl₂, 50 mM NaCl, 0.1% Tween-20, 1 mM DTT for 1 hour, 10 μ l ADP-Glo Reagent was added to the products and incubated for 1 hour. Then 20 μ l Kinase Detection Reagent incubated for 1 hour. All the operations and reactions were performed at RT. Luminescence measurement is collected by BMG.

SDS-PAGE


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