

Recombinant Human SMYD2, GST-tagged

Cat. No. SMYD2-6967H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human SMYD2 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	Full length
Description	SMYD2 (also known as SET and MYND domain-containing protein 2) is a member of the SMYD family of protein methyltransferases. SMYD2 is also known as lysine methyltransferase protein 3C (KMT3C). SMYD2 functions to repress transcription by interacting with the Sin3A histone deacetylase complex and performs methylation of Lys36 in histone H3. The exogenous expression of SMYD2 in mouse fibroblasts decreases cell growth. SMYD2 also function as a putative oncogene by methylating p53 and repressing its tumor suppressive function.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Molecular Mass	~70 kDa
Purity	>85%
Applications	Western Blot

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Storage	Store at -70°C . For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.1 $\mu\text{g}/\mu$
GENE INFORMATION	
Gene Name	SMYD2 SET and MYND domain containing 2 [Homo sapiens]
Official Symbol	SMYD2
Synonyms	SMYD2; SET and MYND domain containing 2; N-lysine methyltransferase SMYD2; HSKM B; KMT3C; ZMYND14; lysine N-methyltransferase 3C; histone methyltransferase SMYD2; zinc finger, MYND domain containing 14; SET and MYND domain-containing protein 2; HSKM-B; MGC119305;
Gene ID	56950
mRNA Refseq	NM_020197
Protein Refseq	NP_064582
MIM	610663
UniProt ID	Q9NRG4
Chromosome Location	1q32.3
Pathway	p53 pathway, organism-specific biosystem;

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Function

RNA polymerase II core binding; histone methyltransferase activity (H3-K36 specific); metal ion binding; methyltransferase activity; p53 binding; protein binding; protein-lysine N-methyltransferase activity; transferase activity; zinc ion binding;

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