

## Recombinant Human SET And MYND Domain Containing 2, GST-tagged

**Cat. No.** SMYD2-1633H    **Lot. No.** (See product label)

### SPECIFICATION

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>  | Recombinant full-length human SMYD2 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>           | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>            | Sf9 Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>       | 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. |
| <b>Applications</b>      | Western Blot                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Molecular Weight</b>  | 70 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Expression System</b> | Sf9 insect cells using baculovirus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Form</b>              | Recombinant protein stored in 50 mM Tris-HCL, pH 7.5, 150 mM NaCl, 0.1 mM PMSF, 0.25 mM DTT, 10 mM glutathione, 0.1 mM EDTA, 25 % glycerol.                                                                                                                                                                                                                                                                                                                                                                                                     |

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|                      |                                                                                                                                                                                                                                         |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>        | > 85 %                                                                                                                                                                                                                                  |
| <b>Concentration</b> | 0.1 ug/ul                                                                                                                                                                                                                               |
| <b>Sequences</b>     | Full-length                                                                                                                                                                                                                             |
| <b>Storage</b>       | Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles. |

## GENE INFORMATION

|                            |                                                                                                                                                                       |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | SMYD2 SET and MYND domain containing 2 [ Homo sapiens ]                                                                                                               |
| <b>Official Symbol</b>     | SMYD2                                                                                                                                                                 |
| <b>Synonyms</b>            | SMYD2; SET and MYND domain containing 2; KMT3C; HSKM-B; ZMYND14; MGC119305; zinc finger, MYND domain containing 14; OTTHUMP00000035134; Lysine N-methyltransferase 3C |
| <b>Gene ID</b>             | 56950                                                                                                                                                                 |
| <b>mRNA Refseq</b>         | NM_020197                                                                                                                                                             |
| <b>Protein Refseq</b>      | NP_064582                                                                                                                                                             |
| <b>MIM</b>                 | 610663                                                                                                                                                                |
| <b>UniProt ID</b>          | Q9NRG4                                                                                                                                                                |
| <b>Chromosome Location</b> | 1q32.3-q41                                                                                                                                                            |

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**Function**

metal ion binding; protein binding; zinc ion binding

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