

## Recombinant Human WHSC1 protein, FLAG/His-tagged

**Cat. No.** WHSC1-185H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <b>Product Overview</b> | Recombinant Human WHSC1(782-end) fused with FLAG/His tag at N-terminal was expressed in Insect cells.                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | Insect Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>ProteinLength</b>    | 782-end a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Description</b>      | NSD2 is a histone methyltransferase that preferentially methylates Lys27 of histone H3. Isoform RE-IIBP may act as a transcription regulator that binds DNA and suppresses IL5 transcription through HDAC recruitment. Mutations in the gene for NSD2 are linked to Wolf-Hirschhorn syndrome (WHS), a malformation syndrome associated with a hemizygous deletion of the distal short arm of chromosome 4, and is also associated with chromosomal translocations in multiple myelomas. |
| <b>Form</b>             | 45 mM Tris-HCl, pH 8.0, 124 mM NaCl, 2.4 mM, 10% glycerol, 90 g/ml FLAG peptide and 3 mM DTT.                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Molecular Mass</b>   | 66.5 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Purity</b>           | >30%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Applications</b>     | Suitable for protein binding studies, as an immunogen, or as a Western blotting control.                                                                                                                                                                                                                                                                                                                                                                                                |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>             | >6 months at -80 centigrade. Avoid freeze/thaw cycles.                                                                                                                                                                                                                                                                                      |
| <b>Concentration</b>       | 0.09 mg/ml                                                                                                                                                                                                                                                                                                                                  |
| <b>GENE INFORMATION</b>    |                                                                                                                                                                                                                                                                                                                                             |
| <b>Gene Name</b>           | WHSC1 Wolf-Hirschhorn syndrome candidate 1 [ Homo sapiens ]                                                                                                                                                                                                                                                                                 |
| <b>Official Symbol</b>     | WHSC1                                                                                                                                                                                                                                                                                                                                       |
| <b>Synonyms</b>            | WHSC1; Wolf-Hirschhorn syndrome candidate 1; probable histone-lysine N-methyltransferase NSD2; MMSET; NSD2; trithorax/ash1-related protein 5; nuclear SET domain-containing protein 2; IL5 promoter REII region-binding protein; multiple myeloma SET domain containing protein type III; WHS; TRX5; REIIBP; FLJ23286; KIAA1090; MGC176638; |
| <b>Gene ID</b>             | 7468                                                                                                                                                                                                                                                                                                                                        |
| <b>mRNA Refseq</b>         | NM_133330                                                                                                                                                                                                                                                                                                                                   |
| <b>Protein Refseq</b>      | NP_579877                                                                                                                                                                                                                                                                                                                                   |
| <b>MIM</b>                 | 602952                                                                                                                                                                                                                                                                                                                                      |
| <b>UniProt ID</b>          | O96028                                                                                                                                                                                                                                                                                                                                      |
| <b>Chromosome Location</b> | 4p16.3                                                                                                                                                                                                                                                                                                                                      |
| <b>Pathway</b>             | Lysine degradation, organism-specific biosystem; Lysine degradation, conserved biosystem; Transcriptional misregulation in cancer, organism-specific biosystem;                                                                                                                                                                             |

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Transcriptional misregulation in cancer, conserved biosystem;

**Function**

DNA binding; histone-lysine N-methyltransferase activity; metal ion binding; methyltransferase activity; transferase activity; zinc ion binding;

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