

Recombinant Human SETDB2, GST-tagged

Cat. No. SETDB2-6965H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human SETDB2 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	Full length
Description	SETDB2 is a histone H3 methyltransferase that modulates gene expression epigenetically through histone H3 methylation. Methylation of histone H3 at lysine 9 (H3K9) by SETDB2 has emerged as an important player in the formation of heterochromatin, chromatin condensation, and transcriptional repression. SETDB2 is recruited to heterochromatin regions and contributes in vivo to the deposition of trimethyl marks. Depletion of SETDB2 coincides with a loss of CENP proteins and delayed mitosis, suggesting that SETDB2 participates in chromosome condensation and segregation. Using positional cloning approach, SETDB2 has been cloned from a quantitative trait locus on chromosome 13q14 that influences immunoglobulin E levels and asthma.
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	~120 kDa

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Purity	>80%
Applications	Western Blot
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 µg/µ

GENE INFORMATION

Gene Name	SETDB2 SET domain, bifurcated 2 [Homo sapiens]
Official Symbol	SETDB2
Synonyms	SETDB2; SET domain, bifurcated 2; C13orf4, chromosome 13 open reading frame 4; histone-lysine N-methyltransferase SETDB2; CLLD8; CLLL8; KMT1F; lysine N-methyltransferase 1F; chronic lymphocytic leukemia deletion region 8; chronic lymphocytic leukemia deletion region gene 8 protein; C13orf4; DKFZp586I0123; DKFZp761J1217;
Gene ID	83852
mRNA Refseq	NM_001160308
Protein Refseq	NP_001153780
MIM	607865
UniProt ID	Q96T68

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Chromosome Location	13q14
Pathway	Lysine degradation, organism-specific biosystem; Lysine degradation, conserved biosystem;
Function	DNA binding; histone methyltransferase activity (H3-K9 specific); metal ion binding; methyltransferase activity; transferase activity; zinc ion binding;

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