Recombinant Human Euchromatic Histone-lysine N-methyltransferase 2, GST-tagged

Cat. No. EHMT2-1582H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human EHMT2 (807-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	807-end a.a.
Description	EHMT2 is a lysine-preferring histone methyltransferase. EHMT2 can methylate itself at K165 and this automethylation is necessary and sufficient to mediate in vivo interaction of EHMT2 with heterochromatin protein-1 (HP1). EHMT2 is responsible for the majority of dimethylation of histone H3 at lysine 9 (H3K9me2) and is required for the efficient repression of developmentally regulated genes during embryonic stem cell differentiation. EHMT2 is overexpressed in various cancers and can can specifically methylate p53 at Lys(373). EHMT2 polymorphisms have been associated with colorectal cancer.
Applications	Western Blot
Molecular Weight	73 kDa
Expression System	Sf9 insect cells using baculovirus

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Form	Recombinant protein stored in 50 mM Tris-HCl, ph 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25 % glycerol.
Purity	> 90 %
Concentration	0.1 ug/ul
Sequences	807-end
Storage	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.
Pathways	Lysine degradation; RNA Polymerase I Promoter Clearance; RNA Polymerase I Transcription; RNA Polymerase I Transcription Initiation; Regulation of Androgen receptor activity; Transcription

GENE INFORMATION

Gene Name	EHMT2 euchromatic histone-lysine N-methyltransferase 2 [Homo sapiens]
Official Symbol	EHMT2
Synonyms	EHMT2; euchromatic histone-lysine N-methyltransferase 2; G9A; BAT8; NG36; KMT1C; C6orf30; FLJ35547; DKFZp686H08213; histone-lysine N-methyltransferase EHMT2; H3-K9-HMTase 3; OTTHUMP00000029262; G9A histone methyltransferase; H3-K9-HMTase 3; HLA-B associated transcript 8; ankyrin repeat-containing protein; histone H3-K9 methyltransferase 3; lysine N-methyltransferase 1C; protein G9a; EC 2.1.1.43
Gene ID	10919

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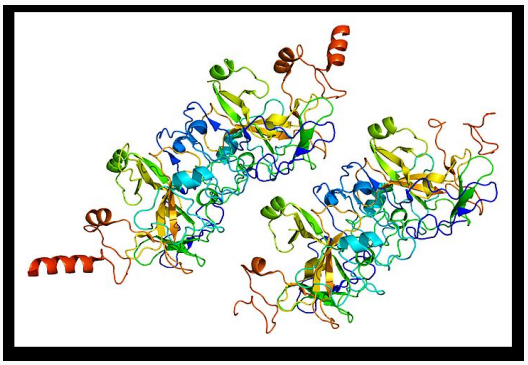
mRNA Refseq	NM_006709
Protein Refseq	NP_006700
MIM	604599
UniProt ID	Q96KQ7
Chromosome Location	6p21.31
Function	histone-lysine N-methyltransferase activity; metal ion binding; methyltransferase activity; p53 binding; protein binding; protein-lysine N-methyltransferase activity; transferase activity; zinc ion binding
PDBrendering based on 2o8j.	

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