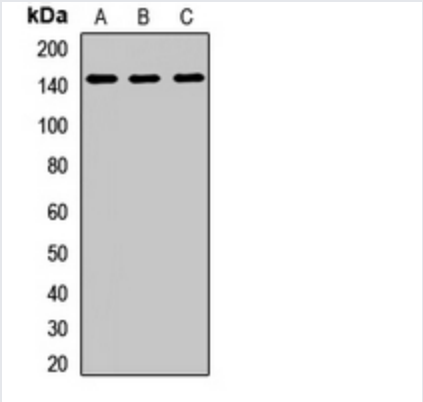
EHMT1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	EHMT1, Polyclonal Antibody
Full Product Name	Rabbit anti-EHMT1 Antibody
Product Gene Name	anti-EHMT1 antibody
Product Synonym Names	EUHMTASE1; GLP; KIAA1876; KMT1D; Histone-lysine N-methyltransferase EHMT1; Euchromatic histone-lysine N-methyltransferase 1; Eu-HMTase1; G9a-like protein 1; GLP; GLP1; Histone H3-K9 methyltransferase 5; H3-K9-HMTase 5; Lysine N-methyltransferase 1D
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Purity/Purification	The antibody was purified by immunogen affinity chromatography.
Concentration	1mg/mL (lot specific)
Preparation and Storage	Store at -20 degree C. Avoid repeated freeze/thaw cycles.
Molecular Weight	74 kDa
OMIM	AK022941 mRNA
3D Structure	ModBase 3D Structure for Q9H9B1
Immunogen	Recombinant full length protein of human EHMT1
Product Categories/Family for anti-EHMT1 antibody	Primary antibodies
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-EHMT1 antibody	Western Blot (WB)
Application Notes for anti-EHMT1 antibody	WB: 1:500-1:2000
Related Product Information for anti-EHMT1 antibody	MBS4508367 is an antibody targeting EHMT1. Also known as Rabbit anti-EHMT1 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-EHMT1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-EHMT1 antibody
Western blot analysis of EHMT1 expression in HepG2 (A), mouse brain (B), rat brain (C) whole cell lysates.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EHMT1. It may not necessarily be applicable to this product.

NCBI GI #	224465232
NCBI GeneID	79813
NCBI Accession #	NM_024757.4
UniProt Primary Accession #	Q9H9B1
UniProt Secondary Accession #	Q5DW34
UniProt Related Accession #	Q9H9B1
GenBank Nucleotide #	NM_024757
NCBI Official Full Name	Homo sapiens euchromatic histone lysine methyltransferase 1 (EHMT1), transcript variant 1, mRNA
NCBI Official Synonym Full Names	euchromatic histone lysine methyltransferase 1
NCBI Official Symbol	EHMT1
NCBI Official Synonym Symbols	GLP; GLP1; KMT1D; FP13812; EUHMTASE1; Eu-HMTase1; bA188C12.1
UniProt Protein Name	Histone-lysine N-methyltransferase EHMT1
UniProt Synonym Protein Names	Euchromatic histone-lysine N-methyltransferase 1; Eu-HMTase1; G9a-like protein 1; GLP; GLP1; Histone H3-K9 methyltransferase 5; H3-K9-HMTase 5; Lysine N-methyltransferase 1D
Protein Family	Histone-lysine N-methyltransferase
UniProt Gene Name	EHMT1
UniProt Synonym Gene Names	EUHMTASE1; GLP; KIAA1876; KMT1D; Eu-HMTase1; GLP; GLP1; H3-K9-HMTase 5
NCBI Protein Information	histone-lysine N-methyltransferase EHMT1
NCBI Summary for EHMT1	The protein encoded by this gene is a histone methyltransferase that is part of the E2F6 complex, which represses transcription. The encoded protein methylates the Lys-9 position of histone H3, which tags it for transcriptional repression. This protein may be involved in the silencing of MYC- and E2F-responsive genes and therefore could play a role in the G0/G1 cell cycle transition. Defects in this gene are a cause of chromosome 9q subtelomeric deletion syndrome (9q-syndrome, also known as Kleefstra syndrome). Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2014]

UniProt Comments for EHMT1	EHMT1: Histone methyltransferase that specifically mono- and dimethylates 'Lys-9' of histone H3 (H3K9me1 and H3K9me2, respectively) in euchromatin. H3K9me represents a specific tag for epigenetic transcriptional repression by recruiting HP1 proteins to methylated histones. Also weakly methylates 'Lys-27' of histone H3 (H3K27me). Also required for DNA methylation, the histone methyltransferase activity is not required for DNA methylation, suggesting that these 2 activities function independently. Probably targeted to histone H3 by different DNA-binding proteins like E2F6, MGA, MAX and/or DP1. During G0 phase, it probably contributes to silencing of MYC- and E2F-responsive genes, suggesting a role in G0/G1 transition in cell cycle. In addition to the histone methyltransferase activity, also methylates non- histone proteins: mediates dimethylation of 'Lys-373' of p53/TP53. Defects in EHMT1 are the cause of chromosome 9q subtelomeric deletion syndrome (9q- syndrome). Common features seen in these patients are severe mental retardation, hypotonia, brachy(micro)cephaly, epileptic seizures, flat face with hypertelorism, synophrys, anteverted nares, cupid bow or tented upper lip, everted lower lip, prognathism, macroglossia, conotruncal heart defects, and behavioral problems. Belongs to the histone-lysine methyltransferase family. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Amino Acid Metabolism - lysine degradation; EC 2.1.1.43; Methyltransferase; Methyltransferase, protein lysine Chromosomal Location of Human Ortholog: 9q34.3 Cellular Component: nuclear body; nucleoplasm; nucleus Molecular Function: histone lysine N-methyltransferase activity (H3-K27 specific); histone lysine N-methyltransferase activity (H3-K9 specific); histone-lysine N-methyltransferase activity; methyltransferase activity; p53 binding; protein binding; protein-lysine N-methyltransferase activity Biological Process: DNA methylation; embryonic development; establishment and/or maintenance of chromatin architecture; histone methylation; negative regulation of transcription, DNA-dependent; peptidyl-lysine di-methylation; peptidyl-lysine mono-methylation Disease: Kleefstra Syndrome
Research Articles on EHMT1	**1.** we find an estrogen receptor-independent synthetic lethal interaction between a GATA3 frameshift mutant with an extended C-terminus and the histone methyltransferases G9A and GLP, indicating perturbed epigenetic regulation
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