

Cat. No:	AB-J856
Size:	100ug
Clone:	POLY
Concentration:	1mg/ml
Host:	Rb
Isotype:	IgG
Immunogen:	Synthesized peptide derived from human EHMT2 protein.
Reactivity:	Hu, Ms
Applications:	Western Blot: 1:500-2000 ELISA: 1:5000-20000
Molecular Weight:	133kDa
Purification:	EHMT2 antibody was affinity-purified from rabbit antiserum by affinitychromatography using epitope-specific immunogen.
Synonyms:	Histone-lysine N-methyltransferase EHMT2 Euchromatic histone-lysine N-methyltransferase 2 HLA-B-associated transcript 8 Histone H3-K9 methyltransferase 3 H3-K9-HMTase 3 Lysine N-methyltransferase 1C Protein G9a
Background:	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 mediates monomethylation of 'Lys-56' of histone H3 (H3K56me1) in G1 phase, leading to promote interaction between histone H3 and PCNA and regulating DNA replication. 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. May also methylate histone H1. In addition to the histone methyltransferase activity, also methylates non-histone proteins: mediates dimethylation of 'Lys-373' of p53/TP53. Also methylates CDYL, WIZ, ACIN1, DNMT1, HDAC1, ERCC6, KLF12 and itself.
Form:	Liquid
Buffer:	Liquid form in PBS containing 50% glycerol, and 0.02% sodium azide.
Storage:	Store at -20°C, and avoid repeat freeze-thaw cycles.

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