

**DATASHEET**

**EHMT1 Rabbit Polyclonal Antibody**

CAT. NO. APA14789

**KEY FEATURES**

Target	EHMT1	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat	Clonality	Polyclonal
Applications	WB	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.		Storage at -20°C

**BACKGROUND**

Histone methyltransferase that specifically mono-, di- and trimethylates 'Lys-9' of histone H3 (H3K9me1, H3K9me2 and H3K9me3, respectively) in euchromatin 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 .

**APPLICATION**

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:2000
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\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

**PRODUCT OVERVIEW**

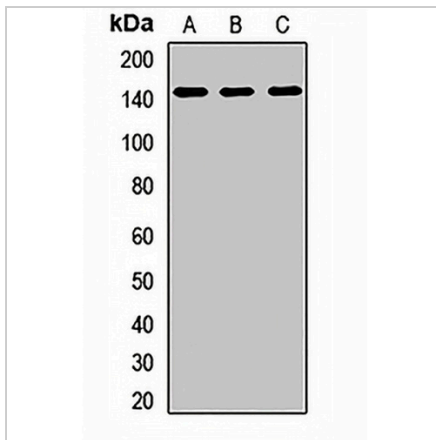
Description	Rabbit polyclonal antibody to EHMT1
Specificity	Recognizes endogenous levels of EHMT1 protein.
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human EHMT1
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 7; Observed: 141 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative 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
Gene Symbol	EHMT1
Entrez Gene	79813(Human); 77683(Mouse)
SwissProt	Q9H9B1(Human); Q5DW34(Mouse)

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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**DATA**

Western blot analysis of EHMT1 expression in HepG2 (A), mouse brain (B), rat brain (C) whole cell lysates. (Predicted band size: 7; 86; 128; 141 kD; Observed band size: 141 kD)

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.