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EHMT1 (C) Antibody, Rabbit Polyclonal

Cat#: R0110-1

Quantity: 100 ul

Predicted M.W.: 141 kDa

Lot#: Refer to vial

Application: WB

Uniprot ID: Q9H9B1

Background:

EHMT1 is a Histone-lysine N-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. EHMT1 also weakly methylates 'Lys-27' of histone H3 (H3K27me). EHMT1 is also required for DNA methylation independent of its histone methyltransferase. During G0 phase, EHMT1 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, EHMT1 also methylates non-histone proteins, such as the dimethylation of 'Lys-373' of p53/TP53.

Other Names:

Histone-lysine N-methyltransferase, Euchromatic histone-lysine N-methyltransferase 1, G9a-like protein 1, Histone H3-K9 methyltransferase 5, H3-K9-HMTase 5, Lysine N-methyltransferase 1D, EUHMTASE1, GLP, KIAA1876, KMT1D

Source and Purity:

Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing the C-terminal region of human EHMT1. Antibodies were purified by affinity purification using immunogen.

Storage Buffer and Condition:

Supplied in 1 x PBS (pH 7.4), 100 ug/ml BSA, 40% Glycerol, 0.01% NaN₃. Store at -20 °C. Stable for 6 months from date of receipt.

Species Specificity:

Human

Tested Applications:

WB: 1:1,000-1:5,000 (detect endogenous protein*)

*: The apparent protein size on WB may be different from the calculated M.W. due to modifications.

Product Data:

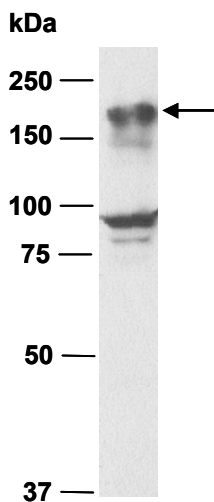


Fig 1. Western blot of total cell extracts from human HeLa, using Ab (R0110-1) at RT for 2 h.