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[Primary Antibody]

Mouse Anti-EHMT2 antibody

Catalog Number: SLM-60315M

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Mouse
Isotype:	IgG2a/Kappa
Clonality:	Monoclonal
Clone No.:	H4F2
Target:	EHMT2
Purification:	Affinity purified by Protein G
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-1000 ICC/IF=1:50-200 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human
Subcellular Location:	The nucleus
Background:	Histone methyltransferases specifically monomethylate and dimethylate 'Lys-9' of histone H3 (H3K9me1 and H3K9me2, respectively) in euchromatin. H3K9me represents a specific marker of epigenetic transcriptional repression by recruiting HP1 protein to methylated histones. It also mediates the monomethylation of Lys-56 of histone H3 (H3K56me1) during the G1 phase, thereby promoting the interaction between histone H3 and PCNA and regulating DNA replication. DNA methylation requires histone methyltransferase activity, while DNA methylation does not require histone methyltransferase activity, indicating that these two activities function independently. This may target histone H3 through different DNA-binding proteins such as E2F6, MGA, MAX, and/or DP1, and may also methylate histone H1. In addition to the non-methylation of histone 3753, the methylation of histone 3753 also mediates histone methylation. It methylates CDYL, WIZ, ACIN1, DNMT1, HDAC1, ERCC6, KLF12, and

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