

组蛋白 H3 赖氨酸 9 甲基化 1C 抗体

产品货号： mlR9118

英文名称： KMT1C

中文名称： 组蛋白 H3 赖氨酸 9 甲基化 1C 抗体

别名： Bat 8; Bat8; EC 2.1.1.43; EHMT 2; EHMT2; Euchromatic histone lysine N methyltransferase 2; Euchromatic histone-lysine N-methyltransferase 2; G 9a; G9 a; G9a protein; H3 K9 HMTase 3; H3 lysine-9 specific 3; H3-K9-HMTase 3; Histone H3 K9 methyltransferase 3; Histone H3 K9 methyltransferase3; Histone lysine N methyltransferase; Histone lysine N methyltransferase, H3 lysine 9 specific 3; Histone lysine N methyltransferase, H3 lysine 9 specific3; Histone-lysine N-methyltransferase; HLA B associated transcript 8; HLA-B associated transcript 8; KMT 1C; KMT1 C; Lysine N methyltransferase 1C; NG36; EHMT2_HUMAN; G9a; HLA-B-associated transcript 8; Histone H3-K9 methyltransferase 3; Protein G9a.

研究领域： 肿瘤 细胞生物 免疫学 染色质和核信号 信号转导 细胞凋亡 表观遗传学

抗体来源： Rabbit

克隆类型： Polyclonal

交叉反应： Human, Mouse, Rat, Dog, Pig, Cow, Horse, Rabbit,

产品应用： ELISA=1:500-1000 IHC-P=1:400-800 IHC-F=1:400-800 IF=1:50-200 (石蜡切片需做抗原修复)

not yet tested in other applications.

optimal dilutions/concentrations should be determined by the end user.

分子量： 133kDa

细胞定位： 细胞核

性状： Lyophilized or Liquid

浓 度 : 1mg/ml

免 疫 原 : KLH conjugated synthetic peptide derived from human KMT1C/G9a:401-550/1210

亚 型 : IgG

纯化方法 : affinity purified by Protein A

储 存 液 : 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.

保存条件 : Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

PubMed : PubMed

产品介绍 : A cluster of genes, BAT1-BAT5, has been localized in the vicinity of the genes for TNF alpha and TNF beta. This gene is found near this cluster; it was mapped near the gene for C2 within a 120-kb region that included a HSP70 gene pair. These genes are all within the human major histocompatibility complex class III region. This gene was thought to be two different genes, NG36 and G9a, adjacent to each other but a recent publication shows that there is only a single gene. The protein encoded by this gene is thought to be involved in intracellular protein-protein interaction. There are three alternatively spliced transcript variants of this gene but only two are fully described. [provided by RefSeq, Jul 2008].

Function:

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. 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.

Subunit:

Heterodimer; heterodimerizes with EHMT1/GLP. Interacts with GFI1B and WIZ. Part of the E2F6.com-1 complex in G0 phase composed of E2F6, MGA, MAX, TFDP1, CBX3, BAT8, EHMT1, RING1, RNF2, MBLR, L3MBTL2 and YAF2. Part of a complex composed of TRIM28, HDAC1, HDAC2 and EHMT2.

Subcellular Location:

Nucleus. Chromosome. Note=Associates with euchromatic regions. Does not associate with heterochromatin.

Tissue Specificity:

Expressed in all tissues examined, with high levels in fetal liver, thymus, lymph node, spleen and peripheral blood leukocytes and lower level in bone marrow.

Post-translational modifications:

Phosphorylated upon DNA damage, probably by ATM or ATR.

Methylated at Lys-185; automethylated.

Similarity:

Belongs to the histone-lysine methyltransferase family. Suvar3-9 subfamily.

Contains 7 ANK repeats.

Contains 1 post-SET domain.

Contains 1 pre-SET domain.

Contains 1 SET domain.

SWISS:

Q96KQ7

Gene ID:

10919

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

产品图片

