

Recombinant human EHMT2/G9A protein ab80323

2 图像

描述

产品名称	重组人EHMT2/G9A蛋白
生物活性	Activity: 22 pmol/min/μg. Assay conditions: Enzyme was incubated with 0.5 μM of biotinylated H3 peptide with 40 μM AdoMet in HMT buffer 1A in a 10-μl reaction. 5 μl of Anti-Mouse AlphaLISA acceptor beads (1:250) and 5 μl of Primary Antibody 7 (1:50) were added and incubation continued for 30 min. Streptavidin Donor beads (1:125) were added (10 μl) and mixture was further incubated for 15 min at RT before counts were measured.
纯度	> 80 % SDS-PAGE. Affinity purified.
表达系统	Escherichia coli
Accession	Q96KQ7
蛋白长度	Protein fragment
无动物成分	No
性质	Recombinant
种属	Human
预测分子量	75 kDa including tags
氨基酸	785 to 1210
标签	GST tag N-Terminus
额外的序列信息	74.6 kDa including tag

技术指标

Our [Abpromise guarantee](#) covers the use of **ab80323** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Functional Studies
	SDS-PAGE
形式	Liquid

制备和贮存

稳定性和存储	Shipped on Dry Ice. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle.
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pH: 8.00

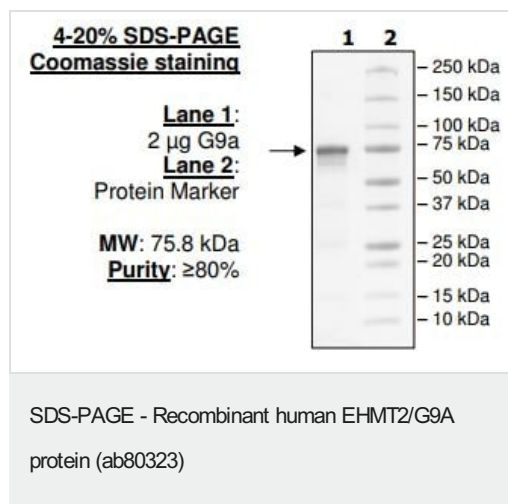
Constituents: 0.0462% (R*,R*)-1,4-Dimercaptobutan-2,3-diol, 0.395% Tris HCl, 0.05% Tween, 30% Glycerol (glycerin, glycerine), 0.58% Sodium chloride

This product is an active protein and may elicit a biological response in vivo, handle with caution.

常规信息

功能	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.
组织特异性	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.
序列相似性	Belongs to the class V-like SAM-binding methyltransferase superfamily. 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.
结构域	The SET domain mediates interaction with WIZ. The ANK repeats bind H3K9me1 and H3K9me2.
翻译后修饰	Methylated at Lys-185; automethylated.
细胞定位	Nucleus. Chromosome. Associates with euchromatic regions. Does not associate with heterochromatin.

图片



SDS-PAGE showing ab80323 at approximately 74.6kDa (5µg).

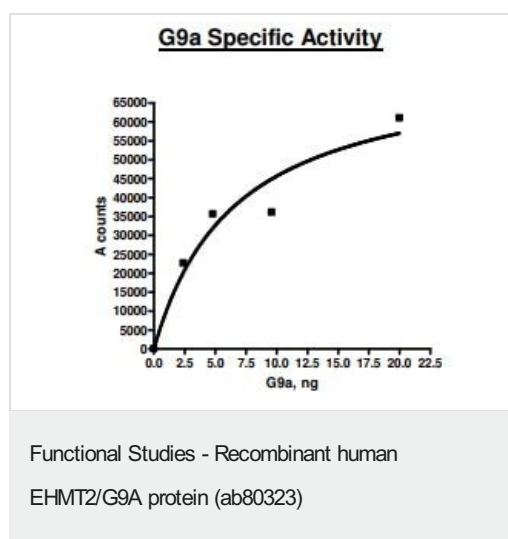


Image showing specific activity of ab80323.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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