

# 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	<a href="#">Q96KQ7</a>
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.

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.

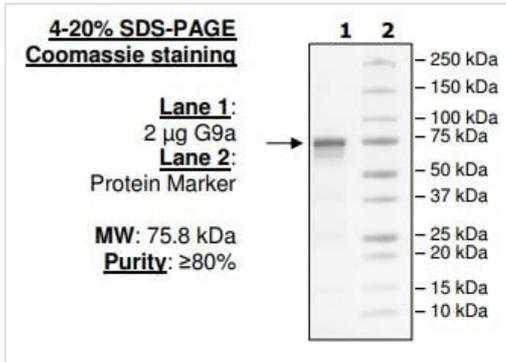
---

## 常规信息

<b>功能</b>	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.
<b>组织特异性</b>	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.
<b>序列相似性</b>	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.
<b>结构域</b>	The SET domain mediates interaction with WIZ. The ANK repeats bind H3K9me1 and H3K9me2.
<b>翻译后修饰</b>	Methylated at Lys-185; automethylated.
<b>细胞定位</b>	Nucleus. Chromosome. Associates with euchromatic regions. Does not associate with heterochromatin.

---

## 图片



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

SDS-PAGE - Recombinant human EHMT2/G9A protein (ab80323)

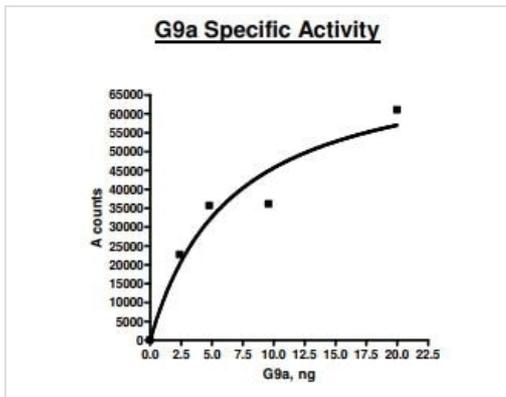


Image showing specific activity of ab80323.

Functional Studies - Recombinant human EHMT2/G9A protein (ab80323)

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

### Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.cn/abpromise> or contact our technical team.

### Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors