

# Anti-EHMT2/G9A antibody ab40542

★★★★☆ **8 Abreviews**   **45 References**   画像数 **2**

### 製品の概要

製品名	Anti-EHMT2/G9A antibody
製品の詳細	Rabbit polyclonal to EHMT2/G9A
由来種	Rabbit
アプリケーション	<b>適用あり:</b> IHC-P, WB
種交差性	<b>交差種:</b> Human
免疫原	Fusion protein corresponding to Human EHMT2/ G9A aa 831-1001. Database link: <a href="#">Q96KQ7</a>
特記事項	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### 製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
精製度	Whole antiserum
ポリ/モノ	ポリクローナル
アイソタイプ	IgG

### アプリケーション

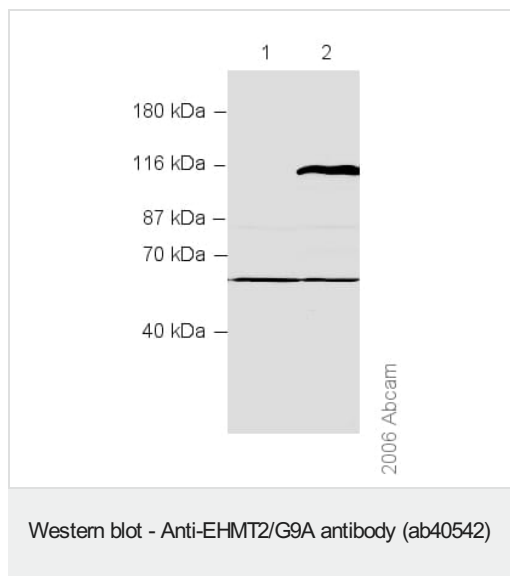
**The Abpromise guarantee**      **Abpromise保証は、次のテスト済みアプリケーションにおけるab40542の使用に適用されます**  
 アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
IHC-P	★★★★★ (1)	1/2000. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
WB	★★★☆☆ (5)	1/2000 - 1/2500. Predicted molecular weight: 132 kDa. For endogeneous detection (without G9a over expression): use nuclear extracts and block overnight or perform IP prior to WB.

## ターゲット情報

機能	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.
組織特異性	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.
配列類似性	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.
ドメイン	The SET domain mediates interaction with WIZ. The ANK repeats bind H3K9me1 and H3K9me2.
翻訳後修飾	Methylated at Lys-185; automethylated.
細胞内局在	Nucleus. Chromosome. Associates with euchromatic regions. Does not associate with heterochromatin.

## 画像



**All lanes :** Anti-EHMT2/G9A antibody (ab40542) at 1/2500 dilution

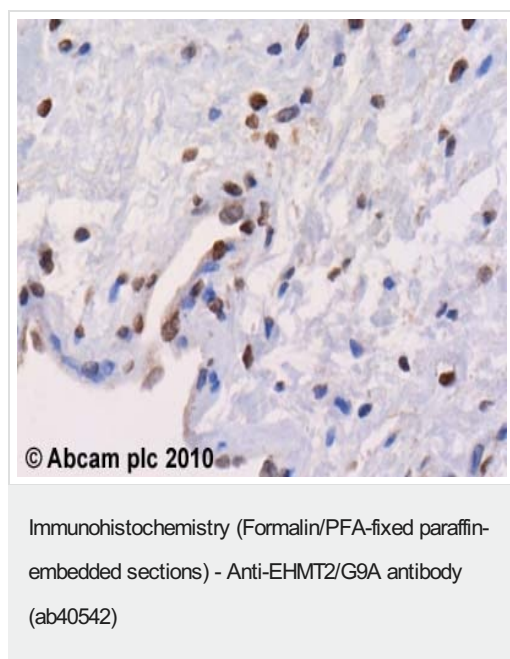
**Lane 1 :** Untransfected HeLa cell extract

**Lane 2 :** G9a transfected HeLa cell extract

**Predicted band size:** 132 kDa

**Observed band size:** 132 kDa

**Additional bands at:** 60 kDa. We are unsure as to the identity of these extra bands.



ab40542 (1:2000) staining EHMT2/ G9A in human prostate using an automated system (DAKO Autostainer Plus). Using this protocol there is strong nuclear staining.

Sections were rehydrated and antigen retrieved with the Dako 3 in 1 AR buffer citrate pH6.1 in a DAKO PT link. Slides were peroxidase blocked in 3% H<sub>2</sub>O<sub>2</sub> in methanol for 10 mins. They were then blocked with Dako Protein block for 10 minutes (containing casein 0.25% in PBS) then incubated with primary antibody for 20 min and detected with Dako envision flex amplification kit for 30 minutes. Colorimetric detection was completed with Diaminobenzidine for 5 minutes. Slides were counterstained with Haematoxylin and coverslipped under DePeX. Please note that, for manual staining, optimization of primary antibody concentration and incubation time is recommended. Signal amplification may be required.

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