

Anti-EHMT2/G9A antibody ab40542

★★★★★ **8 Abreviews** **45 References** **2 图像**

概述

产品名称	Anti-EHMT2/G9A抗体
描述	兔多克隆抗体to EHMT2/G9A
宿主	Rabbit
经测试应用	适用于: IHC-P, WB
种属反应性	与反应: Human
免疫原	Fusion protein corresponding to Human EHMT2/ G9A aa 831-1001. Database link: Q96KQ7
常规说明	<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&As</p>

性能

形式	Liquid
存放说明	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.
纯度	Whole antiserum
克隆	多克隆
同种型	IgG

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab40542于以下的经测试应用

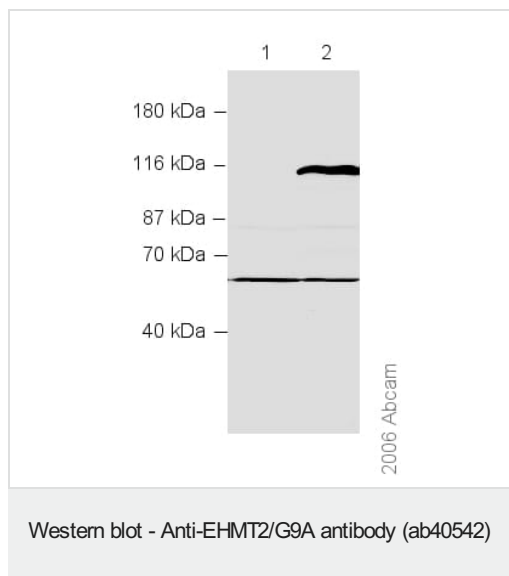
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
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.

靶标

功能	<p>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.</p>
组织特异性	<p>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.</p>
序列相似性	<p>Belongs to the class V-like SAM-binding methyltransferase superfamily. Histone-lysine methyltransferase family. Suvar3-9 subfamily.</p> <p>Contains 7 ANK repeats.</p> <p>Contains 1 post-SET domain.</p> <p>Contains 1 pre-SET domain.</p> <p>Contains 1 SET domain.</p>
结构域	<p>The SET domain mediates interaction with WIZ.</p> <p>The ANK repeats bind H3K9me1 and H3K9me2.</p>
翻译后修饰	<p>Methylated at Lys-185; automethylated.</p>
细胞定位	<p>Nucleus. Chromosome. Associates with euchromatic regions. Does not associate with heterochromatin.</p>

图片



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

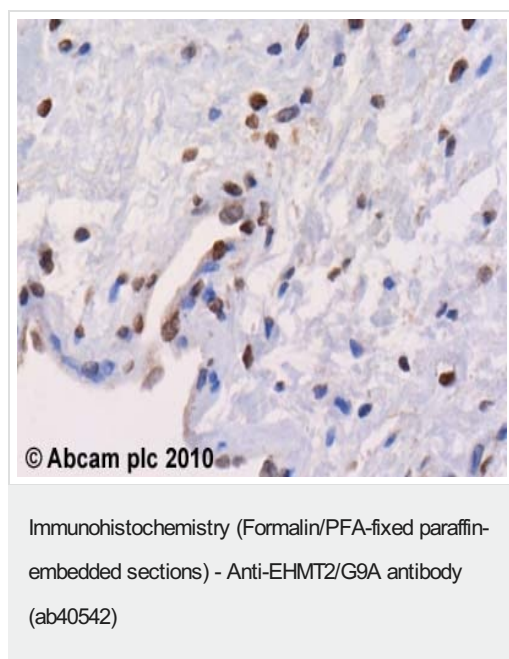
Lane 1 : Untransfected HeLa cell extract

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% H₂O₂ 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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