abcam

Product datasheet

Anti-KDM1/LSD1 antibody [1B2E5 + 1B2F2] ab31954



2 References 4 图像

概述

产**品名称** Anti-KDM1/LSD1抗体[1B2E5 + 1B2F2]

小鼠单**克隆抗体**[1B2E5 + 1B2F2] to KDM1/LSD1

宿主 Mouse

 经测试应用
 适用于: IHC-P, WB

 种属反应性
 与反应: Human

免疫原 Recombinant fragment corresponding to Human KDM1/LSD1.

阳性对照 HeLa and Jurkat cell lysate for Western blot. Human kidnay and lung carcinoma tissue for

Immunohistochemistry.

常规说明

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.

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

Please note that this antibody is an oligoclonal antibody. It is a cocktail of monoclonal antibodies that have been carefully selected. Oligoclonal antibodies have not only the specificity and batch-to-batch consistency of a monoclonal antibody, but also have the advantage of the sensitivity of a

polyclonal antibody due to their ability to recognize multiple epitopes on an antigen.

性能

形式 Liquid

存放说明 Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

存储溶液 Preservative: 0.05% Sodium azide

Constituent: PBS

纯**度** Protein G purified

纯**化说明** Purified from tissue culture supernatant.

克隆 单克隆

1

克隆编号 1B2E5 + 1B2F2

同种型 lgG1

应用

The Abpromise guarantee Abpromise™承诺保证使用ab31954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		1/500 - 1/2000.
WB		1/500 - 1/2000. Predicted molecular weight: 93 kDa.

靶标

功能

Histone demethylase that demethylates both 'Lys-4' (H3K4me) and 'Lys-9' (H3K9me) of histone H3, thereby acting as a coactivator or a corepressor, depending on the context. Acts by oxidizing the substrate by FAD to generate the corresponding imine that is subsequently hydrolyzed. Acts as a corepressor by mediating demethylation of H3K4me, a specific tag for epigenetic transcriptional activation. Demethylates both mono- (H3K4me1) and di-methylated (H3K4me2) H3K4me. May play a role in the repression of neuronal genes. Alone, it is unable to demethylate H3K4me on nucleosomes and requires the presence of RCOR1/CoREST to achieve such activity. Also acts as a coactivator of androgen receptor (ANDR)-dependent transcription, by being recruited to ANDR target genes and mediating demethylation of H3K9me, a specific tag for epigenetic transcriptional repression. The presence of PRKCB in ANDR-containing complexes, which mediates phosphorylation of 'Thr-6' of histone H3 (H3T6ph), a specific tag that prevents demethylation H3K4me, prevents H3K4me demethylase activity of KDM1A. Demethylates dimethylated 'Lys-370' of p53/TP53 which prevents interaction of p53/TP53 with TP53BP1 and represses p53/TP53-mediated transcriptional activation. Demethylates and stabilizes the DNA methylase DNMT1. Required for gastrulation during embryogenesis.

组织特异性 Ubiquitously expressed.

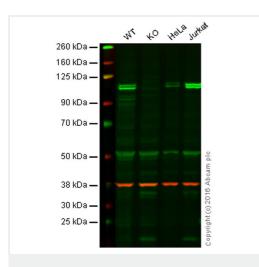
序列相似性 Belongs to the flavin monoamine oxidase family.

Contains 1 SWIRM domain.

结**构域** The SWIRM domain may act as an anchor site for a histone tail.

细胞定位 Nucleus.

图片



Western blot - Anti-KDM1/LSD1 antibody [1B2E5 + 1B2F2] (ab31954)



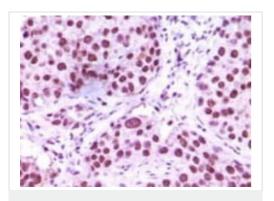
Lane 2: KDM1/LSD1 knockout HAP1 cell lysate (20 µg)

Lane 3: HeLa cell lysate (20 µg)

Lane 4: Jurkat cell lysate (20 µg)

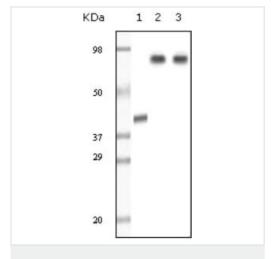
Lanes 1 - 4: Merged signal (red and green). Green - ab31954 observed at 110 kDa. Red - loading control, **ab181602**, observed at 37 kDa.

ab31954 was shown to specifically recognize KDM1/LSD1 in wild-type HAP1 cells along with additional cross reactive bands. No bands were observed when KDM1/LSD1 knockout samples were used. Wild-type and KDM1/LSD1 knockout samples were subjected to SDS-PAGE. ab31954 and ab181602 (loading control to GAPDH) were diluted 1/250 and 1/10,000 respectively and incubated overnight at 4°C. Blots were developed with Goat anti-Mouse IgG H&L (IRDye® 800CW) preadsorbed (ab216772) and Goat Anti-Rabbit IgG H&L (IRDye® 680RD) preadsorbed (ab216777) secondary antibodies at 1/10,000 dilution for 1hr at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-KDM1/LSD1 antibody [1B2E5 + 1B2F2] (ab31954)

Immunohistochemical analysis of paraffin-embedded human lung carcinoma tissue, showing nuclear localisation using LSD1 antibody (ab31954) dilution 1:500-1:2000 and an HRP-conjugated secondary antibody with DAB staining.



Western blot - Anti-KDM1/LSD1 antibody [1B2E5 + 1B2F2] (ab31954)

All lanes: Anti-KDM1/LSD1 antibody [1B2E5 + 1B2F2] (ab31954)

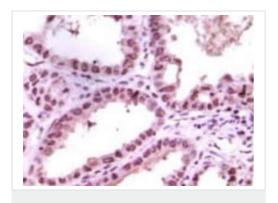
Lane 1: Molecular weight marker

Lane 2: LSD1 recombinant protein (NB: truncated form)

Lane 3: HeLa cell lysate

Predicted band size: 93 kDa

Primary antibody dilution range 1:500-1:2000.



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-KDM1/LSD1 antibody
[1B2E5 + 1B2F2] (ab31954)

Immunohistochemical analysis of paraffin-embedded human kidney carcinoma tissue, showing nuclear localisation using LSD1 antibody (ab31954) dilution 1:500-1:2000 and an HRP-conjugated secondary antibody with DAB staining.

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