abcam

Product datasheet

Anti-MBD3 antibody [EPR9913] - ChIP Grade ab157464

敲除验证 重组 RabMAb

9 Abreviews 18 References 8 图像

概述

产品名称	Anti-MBD3抗体[EPR9913] - ChIP Grade
描述	兔单克隆抗体[EPR9913] to MBD3 - ChIP Grade
宿主	Rabbit
经测试应用	**适用于:** Flow Cyt (Intra), IP, WB, ICC/IF, ChIP **不适用于:** IHC-P
种属反应性	**与反应:** Mouse, Rat, Cow, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	HeLa, 293T, fetal brain and Y79 lysates; HeLa cells; Permeabilized 293T cells.
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at -20ºC.
存储溶液	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
纯度	Tissue culture supernatant
克隆	单克隆
克隆编号	EPR9913
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab157464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
Flow Cyt (Intra)		1/10 - 1/100. **ab172730** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
IP	★★★★★ (1)	Use at an assay dependent concentration.
WB	★★★★★ (4)	1/1000 - 1/5000. Predicted molecular weight: 33 kDa.
ICC/IF	★★★★★ (2)	1/100 - 1/1000.
ChIP	★★★★★ (1)	Use at an assay dependent concentration.

应用说明 Is unsuitable for IHC-P.

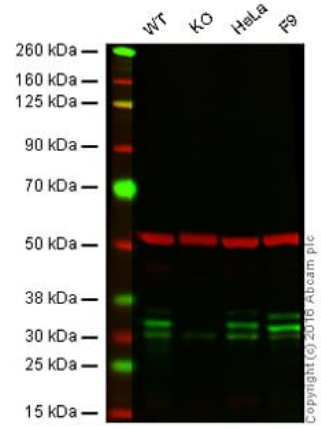
靶标

功能 Does not bind DNA by itself. Recruits histone deacetylases and DNA methyltransferases. Acts as transcriptional repressor and plays a role in gene silencing.

序列相似性 Contains 1 MBD (methyl-CpG-binding) domain.

细胞定位 Nucleus. Nuclear, in discrete foci.

图片

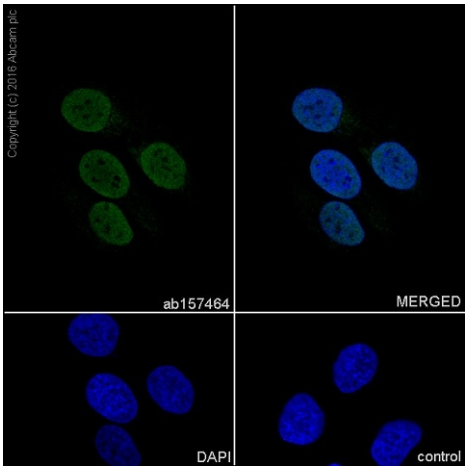


Western blot - Anti-MBD3 antibody [EPR9913] - ChIP Grade (ab157464)

Lane 1: Wild-type HAP1 cell lysate (20 µg)
Lane 2: ProteinX knockout HAP1 cell lysate (20 µg)
Lane 3: Wild-type HAP1 cell lysate (20 µg)
Lane 4: ProteinX knockout HAP1 cell lysate (20 µg)
Lanes 1 - 4: Merged signal (red and green). Green - ab157464 observed at 33 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab157464 was shown to recognize MBD3 when MBD3 knockout samples were used, along with additional cross-reactive bands. Wild-type and MBD3 knockout samples were subjected to SDS-PAGE. ab157464 and **ab8245** (loading control to GAPDH) were diluted 1/1000 and 1/10000 respectively and incubated overnight at 4°C. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L

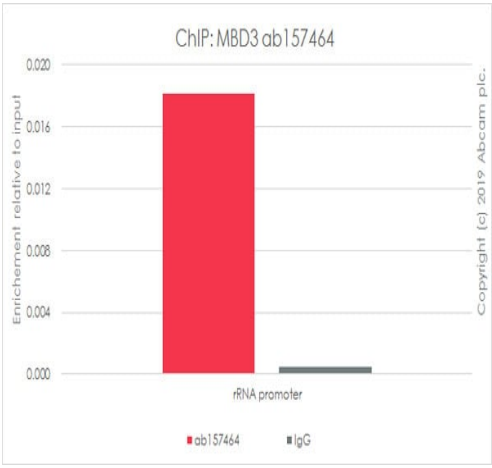
(IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.



Immunocytochemistry/ Immunofluorescence - Anti-MBD3 antibody [EPR9913] - ChIP Grade (ab157464)

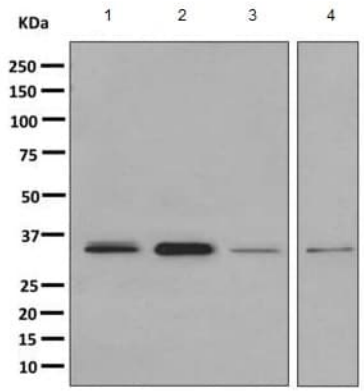
Immunocytochemistry/Immunofluorescence analysis of HeLa (human cervix adenocarcinoma) labelling MBD3 with purified ab157464 at 1/1000. Cells were fixed with 4% PFA and permeabilized with 0.1% Triton X-100. An Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/1000) was used as the secondary antibody (Ab150077). Nuclei counterstained with DAPI (blue).

Control: PBS only



ChIP - Anti-MBD3 antibody [EPR9913] - ChIP Grade (ab157464)

Chromatin was prepared from HeLa cells according to the Abcam Dual X-ChIP protocol*. Cells were fixed with EGS for 30 minutes, then formaldehyde for 10 minutes.
The ChIP was performed with 25 µg of chromatin, 5 µg of ab157464 (red), and 20 µl of Protein A/G sepharose beads. 5 µg of rabbit normal IgG was added to the beads control (gray). The immunoprecipitated DNA was quantified by real time PCR (Sybr green approach).
Primers and probes are located in the first kb of the transcribed region.
*http://www.abcam.com/resources?keywords=X%20ChIP%20protocol



Western blot - Anti-MBD3 antibody [EPR9913] - ChIP Grade (ab157464)

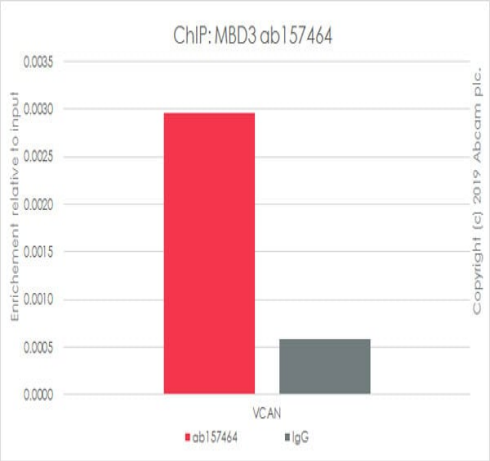
All lanes : Anti-MBD3 antibody [EPR9913] - ChIP Grade (ab157464) at 1/1000 dilution

Lane 1 : HeLa cell lysate
Lane 2 : 293T cell lysate
Lane 3 : Fetal brain lysate
Lane 4 : Y79 cell lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 33 kDa



ChIP - Anti-MBD3 antibody [EPR9913] - ChIP Grade (ab157464)

Chromatin was prepared from NIH/3T3 cells according to the Abcam Dual X-ChIP protocol*. Cells were fixed with EGS for 30 minutes, then formaldehyde for 10 minutes.
The ChIP was performed with 25 µg of chromatin, 5 µg of ab157464 (red), and 20 µl of Protein A/G sepharose beads. 5 µg of rabbit normal IgG was added to the beads control (gray). The immunoprecipitated DNA was quantified by real time PCR (Sybr green approach).
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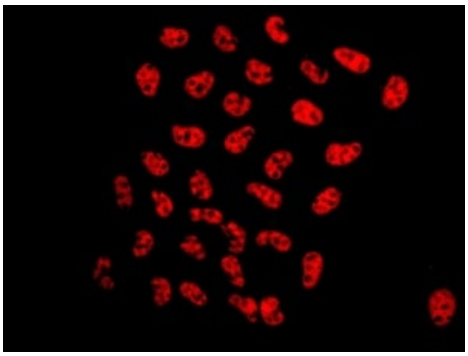
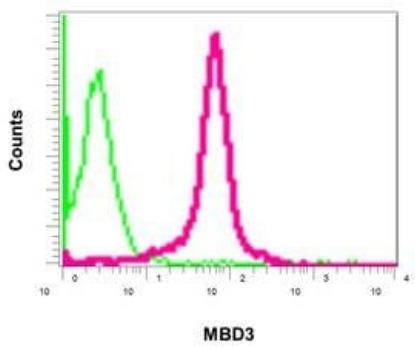


Immunocytochemistry/ Immunofluorescence - Anti-MBD3 antibody [EPR9913] - ChIP Grade (ab157464)

Immunofluorescent analysis of HeLa cells labeling MBD3 with ab157464 at 1/100 dilution.



Flow Cytometry (Intracellular) - Anti-MBD3 antibody [EPR9913] - ChIP Grade (ab157464)

Intracellular flow cytometric analysis of permeabilized 293T cells labeling MBD3 with ab157464 at 1/10 dilution (red) compared to a rabbit IgG negative control (green).

Anti-MBD3 antibody [EPR9913] - ChIP Grade (ab157464)

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