


Anti-mH2A1 antibody [EPR9358] ab137117

敲除验证 重组 RabMAb

★★★★★ 1 Abreviews 1 References 6 图像

概述

产品名称	Anti-mH2A1抗体[EPR9358]
描述	兔单克隆抗体[EPR9358] to mH2A1
宿主	Rabbit
经测试应用	适用于: WB, IHC-P 不适用于: Flow Cyt, ICC/IF or IP
种属反应性	与反应: Human 预测可用于: Mouse, Rat 
免疫原	Synthetic peptide within Human mH2A1 aa 1-100 (N terminal). The exact sequence is proprietary.
阳性对照	Fetal kidney, HepG2, HeLa, and MCF7 cell lysates, Human cervical carcinoma and Human colon tissue.
常规说明	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

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	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
纯度	Protein A purified
克隆	单克隆

克隆编号EPR9358

同种型IgG

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab137117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。

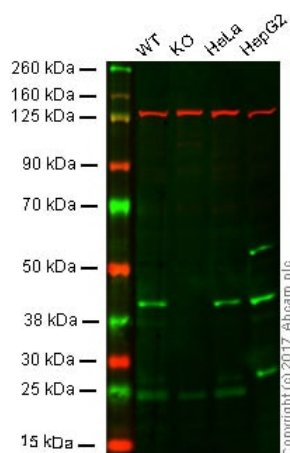
应用	Ab评论	说明
WB		1/1000 - 1/10000. Predicted molecular weight: 40 kDa.
IHC-P	★★★★★ (1)	1/100 - 1/250. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

应用说明 Is unsuitable for Flow Cyt, ICC/IF or IP.

靶标

功能	Variant histone H2A which replaces conventional H2A in a subset of nucleosomes where it represses transcription. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling. Involved in stable X chromosome inactivation. Inhibits the binding of transcription factors and interferes with the activity of remodeling SWI/SNF complexes. Inhibits histone acetylation by EP300 and recruits class I HDACs, which induces an hypoacetylated state of chromatin. In addition, isoform 1, but not isoform 2, binds ADP-ribose and O-acetyl-ADP-ribose, and may be involved in ADP-ribose-mediated chromatin modulation.
组织特异性	Ubiquitous.
序列相似性	Contains 1 histone H2A domain. Contains 1 Macro domain.
翻译后修饰	Monoubiquitinated at either Lys-116 or Lys-117. May also be polyubiquitinated. Ubiquitination is mediated by the CUL3/SPOP E3 complex and does not promote proteasomal degradation. Instead, it is required for enrichment in inactive X chromosome chromatin.
细胞定位	Nucleus. Chromosome. Enriched in inactive X chromosome chromatin and in senescence-associated heterochromatin.

图片



Western blot - Anti-mH2A1 antibody [EPR9358]
(ab137117)

Lane 1: Wild type HAP1 whole cell lysate (20 µg)

Lane 2: mH2A1 knockout HAP1 whole cell lysate (20 µg)

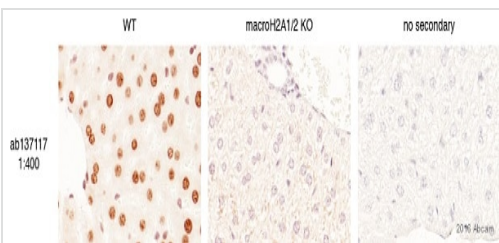
Lane 3: HeLa whole cell lysate (20 µg)

Lane 4: Hepg2 whole cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green). Green - ab137117 observed at 40 kDa. Red - loading control, **ab18058**, observed at 130 kDa.

ab137117 was shown to recognize mH2A1 when mH2A1 knockout samples were used, along with additional cross-reactive bands.

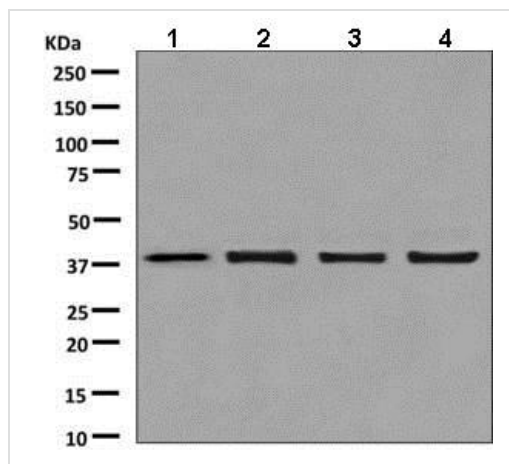
Wild-type and mH2A1 knockout samples were subjected to SDS-PAGE. Ab137117 and **ab18058** (Mouse anti Vinculin loading control) were incubated overnight at 4°C at 1000 dilution and 1/10000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed **ab216776** secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-mH2A1 antibody [EPR9358] (ab137117)

This image is courtesy of an anonymous abreview.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse liver from wild-type and mH2A1/2 knock out tissue sections labeling mH2A1 with ab137117 at 1/400 dilution. Sections were fixed in formaldehyde; heat mediated antigen retrieval was performed using a citrate buffer pH 6. An undiluted polyclonal horse anti-rabbit IgG (HRP-conjugated) was used as the secondary antibody.



Western blot - Anti-mH2A1 antibody [EPR9358]
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All lanes : Anti-mH2A1 antibody [EPR9358] (ab137117) at 1/1000 dilution

Lane 1 : Fetal kidney tissue lysate

Lane 2 : HepG2 cell lysate

Lane 3 : HeLa cell lysate

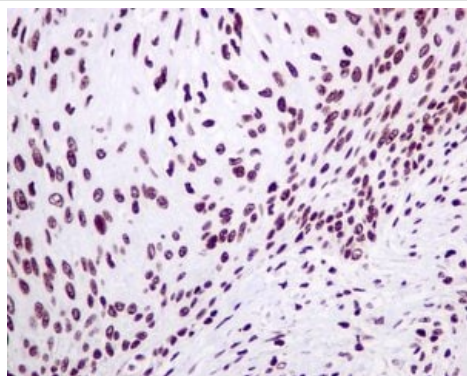
Lane 4 : MCF7 cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

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

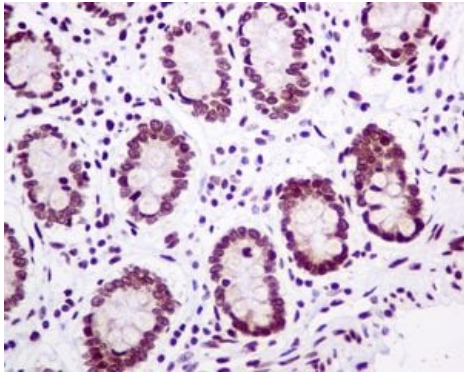
Predicted band size: 40 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-mH2A1 antibody
[EPR9358] (ab137117)

Immunohistochemical analysis of paraffin embedded Human cervical carcinoma tissue labelling mH2A1 with ab137117 antibody at a dilution of 1/100.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-mH2A1 antibody [EPR9358] (ab137117)

Immunohistochemical analysis of paraffin embedded Human colon tissue labelling mH2A1 with ab137117 antibody at a dilution of 1/100.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-mH2A1 antibody [EPR9358] (ab137117)

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