


Anti-Histone H1.0 antibody [27] ab11080

敲除 验证

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概述

产品名称	Anti-Histone H1.0抗体[27]
描述	小鼠单克隆抗体[27] to Histone H1.0
宿主	Mouse
经测试应用	适用于: WB, IHC-P 不适用于: Flow Cyt (Intra)
种属反应性	与反应: Human 预测可用于: Mouse, Rat, Cow, Xenopus laevis, Vertebrata  不与反应: Bird
免疫原	Full length native protein (purified) corresponding to Cow Histone H1.0.
表位	This antibody recognises an epitope within aa24-30. Proline 26, which is responsible for a bend in this region, plays an important role in the recognition. See Gorka et al. 1998 for more information.
阳性对照	WB: A431, MCF7 and HeLa cell lysates; Histone H1.0 Human Recombinant Protein. IHC-P: Human colon and pancreas adenocarcinoma tissues.
常规说明	<p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact orders@abcam.com.</p> <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.
存储溶液	Preservative: 0.02% Sodium azide

纯度	Constituents: PBS, 6.97% L-Arginine
克隆	Protein G purified
克隆编号	单克隆
骨髓瘤	27
同种型	NS1/1-Ag4-1
	IgG1

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab11080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。

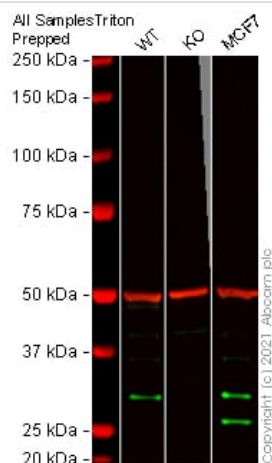
应用	Ab评论	说明
WB		1/500. Detects a band of approximately 30 kDa (predicted molecular weight: 20 kDa). Linker histones run at about 30kD even though the predicted size is about 20kD.
IHC-P		Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

应用说明 Is unsuitable for Flow Cyt (Intra).

靶标

功能	Histones H1 are necessary for the condensation of nucleosome chains into higher-order structures. The H1F0 histones are found in cells that are in terminal stages of differentiation or that have low rates of cell division.
序列相似性	Belongs to the histone H1/H5 family. Contains 1 H15 (linker histone H1/H5 globular) domain.
翻译后修饰	Phosphorylated on Ser-17 in RNA edited version.
细胞定位	Nucleus. Chromosome. The RNA edited version has been localized to nuclear speckles. During mitosis, it appears in the vicinity of condensed chromosomes.

图片



Western blot - Anti-Histone H1.0 antibody [27] (ab11080)

All lanes : Anti-Histone H1.0 antibody [27] (ab11080) at 1/500 dilution

Lane 1 : Wild-type A431 cell lysate

Lane 2 : H1F0 knockout A431 cell lysate

Lane 3 : MCF7 (Human breast adenocarcinoma cell line) whole cell lysate

Lysates/proteins at 40 µg per lane.

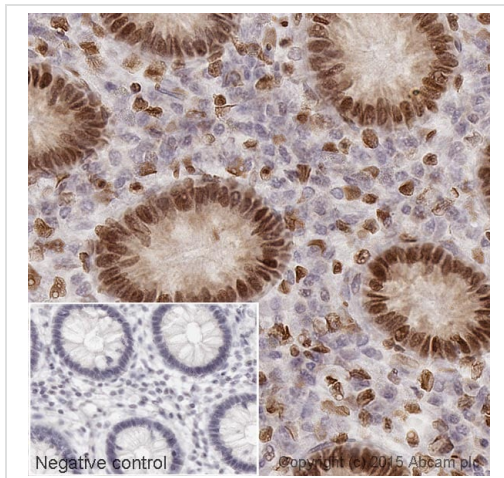
Performed under reducing conditions.

Predicted band size: 20 kDa

Observed band size: 30 kDa

Lanes 1 - 3: Merged signal (red and green). Green - ab11080 observed at 30 kDa. Red - loading control [ab52866](#) (Rabbit anti-alpha Tubulin antibody [EP1332Y]) observed at 55 kDa.

ab11080 was shown to react with Histone H1.0 in wild-type A431 cells in Western blot with loss of signal observed in H1F0 knockout sample. Wild-type A431 and H1F0 knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3 % milk in TBS-T (0.1 % Tween®) before incubation with ab11080 and [ab52866](#) (Rabbit anti-alpha Tubulin antibody [EP1332Y]) overnight at 4°C at a 1 in 500 dilution and a 1 in 20000 dilution respectively. Blots were incubated with Goat anti-Mouse IgG H&L (IRDye® 800CW) preabsorbed ([ab216772](#)) and Goat anti-Rabbit IgG H&L (IRDye® 680RD) preabsorbed ([ab216777](#)) secondary antibodies at 1 in 20000 dilution for 1 h at room temperature before imaging.

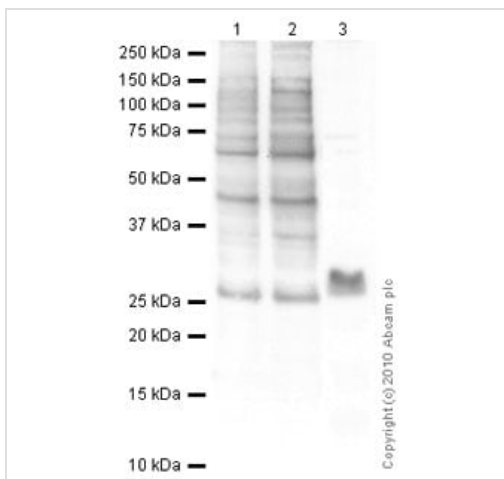


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Histone H1.0 antibody [27] (ab11080)

IHC image of Histone H1 staining in a section of formalin-fixed paraffin-embedded [human normal colon]*. The section was pre-treated using pressure cooker heat mediated antigen retrieval with sodium citrate buffer (pH6) for 30mins. The section was then incubated with ab11080, 1/1000 dilution, for 15 mins at room temperature. A goat anti-mouse biotinylated secondary antibody ([ab6788](#), 1/1000 dilution), was used to detect the primary, and visualized using an HRP conjugated ABC system. Streptavidin HRP was used, [ab7403](#) at a 1/10000 dilution. DAB was used as the chromogen ([ab103723](#)), diluted 1/100 and incubated for 10min at room temperature. The section was then counterstained with haematoxylin and mounted with DPX. The inset negative control image is taken from an identical assay without primary antibody.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

*Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre



Western blot - Anti-Histone H1.0 antibody [27] (ab11080)

All lanes : Anti-Histone H1.0 antibody [27] (ab11080) at 1/500 dilution

Lane 1 : HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate

Lane 2 : HeLa (Human epithelial carcinoma cell line) Nuclear Lysate

Lane 3 : Histone H1.0 Human Recombinant Protein

Lysates/proteins at 30 µg per lane.

Secondary

All lanes : Goat polyclonal to Mouse IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

Developed using the ECL technique.

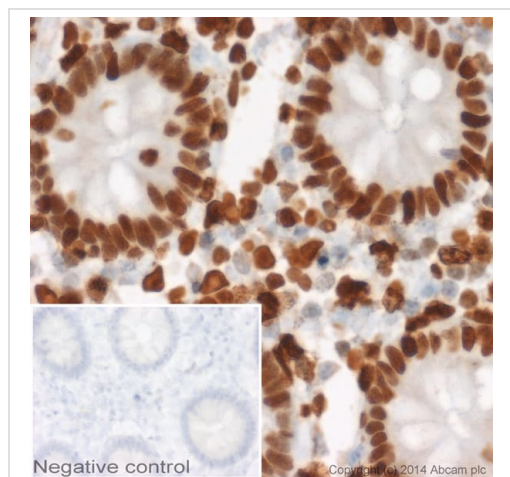
Performed under reducing conditions.

Predicted band size: 20 kDa

Observed band size: 30 kDa

Additional bands at: 46 kDa, 65 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 1 minute

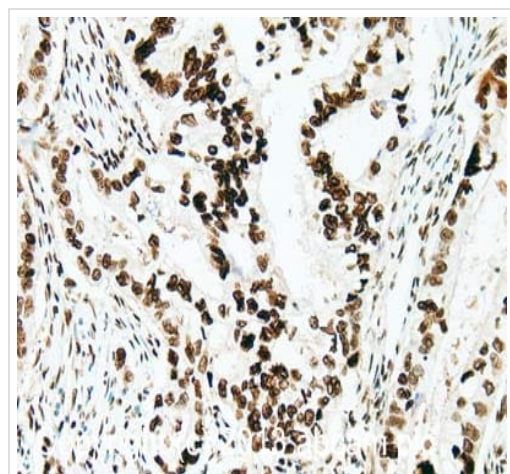


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Histone H1.0 antibody [27] (ab11080)

IHC image of Histone H1.0 staining in human colon formalin fixed paraffin embedded tissue section*. The section was pre-treated using pressure cooker heat mediated antigen retrieval with sodium citrate buffer (pH6) for 30mins. The section was incubated with ab11080, 7.5µg/ml overnight at +4°C. An HRP-conjugated secondary (**ab97240**, 1/2000 dilution) was used for 1hr at room temperature. The section was counterstained with haematoxylin and mounted with DPX.

The inset negative control image is secondary-only at 1/500 dilution.

*Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Histone H1.0 antibody [27] (ab11080)

IHC image of Histone H1.0 staining in Human pancreas adenocarcinoma formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab11080, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

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