abcam

Product datasheet

Anti-Histone H1 (tri methyl K25) antibody ab17347

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概述

产品名称	Anti-Histone H1 (tri methyl K25)抗体
描述	兔多克隆抗体to Histone H1 (tri methyl K25)
特异性	ab17347 gives a positive result against the immunizing peptide and a negative result against the corresponding unmodified peptide in ELISA analysis. ab17347 recognises histone H1 tri methyl K25 in HeLa nuclear and whole cell lysates at 35 kDa. The signal is efficiently blocked using the immunzing histone H1 tri methyl K25 peptide but not the corrseponding unmodified peptide or histone H1 di methyl K25 peptide. ab17347 also appears to recognise other bands between 34 kDa and 37 kDa, which are attributed to the antibody recognising other isoforms of histone H1. ab17347 also appears to recognise methylated histone H3 at 17 kDa.
经测试应用	**适用于:** IHC-FoFr, WB, ICC/IF, IHC-P
种属反应性	**与反应:** Cow, Human **预测可用于:** Non human primates
免疫原	Synthetic peptide conjugated to KLH derived from within residues 1 - 100 of Human Histone H1, tri methylated at K25. 参阅Abcam的专有抗源政策
阳性对照	Hela whole cell lysate
常规说明	HeLa nuclear lysate

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 Constituents: 1% BSA, PBS, pH 7.4
纯度	Immunogen affinity purified
克隆	多克隆
同种型	IgG

应用

Our Abpromise guarantee covers the use of **ab17347** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明
IHC-FoFr		1/200.
WB	★★★☆☆	Use a concentration of 1 µg/ml. Detects a band of approximately 35 kDa (predicted molecular weight: 35 kDa).
ICC/IF	★★★☆☆	Use a concentration of 1 µg/ml.
IHC-P		1/300. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

靶标

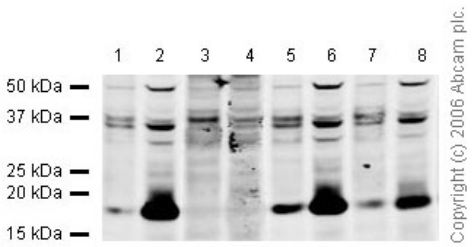
相关性

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures. Linker histones are involved in the formation of higher order structure in chromatin and the maintenance of overall chromatin compaction. Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fibre is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures. Methylation of position-specific lysine residues in histone N termini is a central modification for regulating epigenetic transitions in chromatin. Each methylatable lysine residue can exist in a mono-, di-, or trimethylated state. Arginine resdiues can also by mono or di methylated.

细胞定位

Nuclear

图片



Western blot - Histone H1 (tri methyl K25) antibody (ab17347)

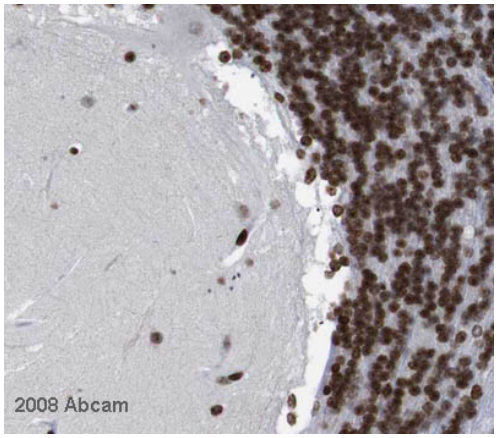
All lanes : Anti-Histone H1 (tri methyl K25) antibody (ab17347) at 1 µg/ml

Lane 1 : HeLa nuclear lysate
Lane 2 : HeLa whole cell lysate
Lane 3 : HeLa nuclear lysate with Human Histone H1 (tri methyl K25) peptide (ab17587) at 1 µg/ml
Lane 4 : HeLa whole cell lysate with Human Histone H1 (tri methyl K25) peptide (ab17587) at 1 µg/ml
Lane 5 : HeLa nuclear lysate with Human Histone H1 peptide (ab17588) at 1 µg/ml
Lane 6 : HeLa whole cell lysate with Human Histone H1 peptide (ab17588) at 1 µg/ml
Lane 7 : HeLa nuclear lysate with Human Histone H1 (di methyl K25) peptide (ab21998) at 1 µg/ml
Lane 8 : HeLa whole cell lysate with Human Histone H1 (di methyl K25) peptide (ab21998) at 1 µg/ml

Lysates/proteins at 20 µg per lane.

Secondary
Goat polyclonal to Rabbit IgG (Alexa Fluor® 680) at 1/10000 dilution at 1/10000 dilution

Predicted band size : 35 kDa
Observed band size : 35 kDa
Additional bands at : 17 kDa (possible cross reactivity).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Histone H1 (tri methyl K25) antibody (ab17347)

Image courtesy of Human Protein Atlas

ab17347 staining histone H1 tri methyl K25 in female cerebellum, showing a distinct and strong staining pattern at cells in the granular and molecular layers. Paraffin embedded human skin tissue was incubated with ab17347(1/300 dilution) for 30 mins at room temperature. Antigen retrieval was performed by heat induction in citrate buffer pH 6.

ab17347 was tested in a tissue microarray (TMA) containing a wide range of normal and cancer tissues as well as a cell microarray consisting of a range of commonly used, well characterised human cell lines. Further results for this antibody can be found at www.proteinatlas.org

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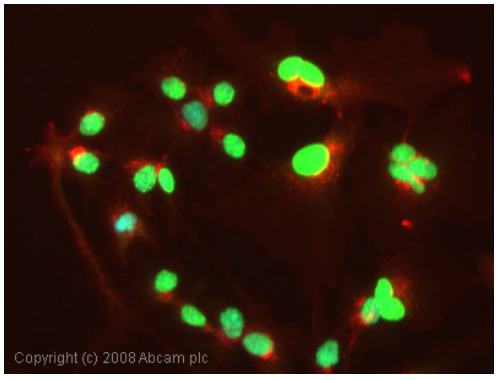

Immunocytochemistry/ Immunofluorescence - Histone H1 (tri methyl K25) antibody (ab17347)

ICC/IF image of ab17347 stained human HepG2 cells. The cells were methanol fixed (5 min), permabilised in 0.1% PBS-Tween (20 min) and incubated with the antibody (ab17347, 1µg/ml) for 1h at room temperature. 1%BSA / 10% normal goat serum / 0.3M glycine was used to block non-specific protein-protein interactions. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red). DAPI was used to stain the cell nuclei (blue). This antibody also gave a positive IF result in HeLa, HEK 293, MCF7 cells.

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