abcam

Product datasheet

Anti-Histone H2A.Z (acetyl K4 + K7 + K11) antibody ab18262

4 Abreviews 34 References 5 图像

概述

产品名称	Anti-Histone H2A.Z (acetyl K4 + K7 + K11)**抗体**
描述	**羊多克隆抗体**to Histone H2A.Z (acetyl K4 + K7 + K11)
宿主	Sheep
经测试应用	**适用于:** ChIP, ICC/IF, WB
种属反应性	**与反应:** Mouse, Chicken, Human
免疫原	Synthetic peptide within Chicken Histone H2A.Z aa 1-17 (N terminal) conjugated to keyhole limpet haemocyanin. The exact sequence is proprietary. Sequence: AGGK$_{Ac}$AGK$_{Ac}$DSGK$_{Ac}$AKAKAC Run BLAST with Run BLAST with

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: PBS, 1% BSA
纯度	Immunogen affinity purified
克隆	**多克隆**
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab18262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
ChIP	(1)	Use at an assay dependent dilution.
ICC/IF	(1)	Use at an assay dependent dilution.

应用	Ab评论	说明
WB	★★★★☆ (2)	Use at an assay dependent dilution. Detects a band of approximately 14 kDa (predicted molecular weight: 13 kDa).

靶标

功能

Variant histone H2A which replaces conventional H2A in a subset of nucleosomes. 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. May be involved in the formation of constitutive heterochromatin. May be required for chromosome segregation during cell division.

序列相似性

Belongs to the histone H2A family.

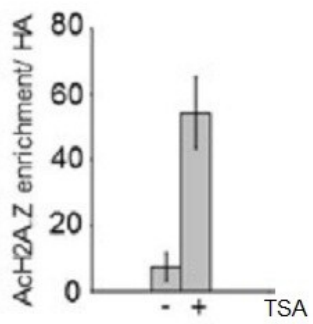
翻译后修饰

Monoubiquitination of Lys-122 gives a specific tag for epigenetic transcriptional repression. Acetylated on Lys-5, Lys-8 and Lys-12 during interphase. Acetylation disappears at mitosis. Monomethylated on Lys-5 and Lys-8 by SETD6. SETD6 predominantly methylates Lys-8, lys-5 being a possible secondary site.
Not phosphorylated.

细胞定位

Nucleus. Chromosome.

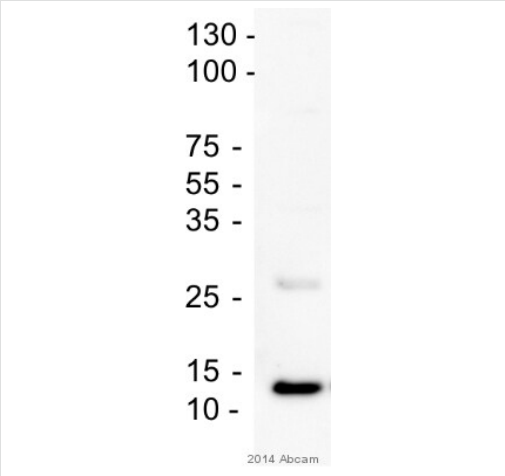
图片



ChIP - Anti-Histone H2A.Z (acetyl K4 + K7 + K11) antibody (ab18262)

Image from Bellucci et al. PLoS One. 2013;8(1):e54102. Figure 3 (d) doi: 10.1371/journal.pone.0054102. Epub 2013 Jan 18.

ChIP analysis of Acetyl-H2A.Z at the p21 transcription start site with or without the HDAC inhibitor TSA (50ng/ml). Chromatin was prepared from MDA-MB231 cells. Cells were fixed with formaldehyde for 10min. Samples were sonicated to generate DNA fragments between 500 and 700 bp. The ChIP was performed with 50µg of chromatin, fragments were immunoprecipitated using 2µg of antibody ab18262, and an HA antibody was used as control. The precipitated DNA was amplified by real-time PCR, with primer sets designed to amplify the promoter and the coding region of the p21 gene.



Western blot - Anti-Histone H2A.Z (acetyl K4 + K7 + K11) antibody (ab18262)

This image is courtesy of an anonymous Abreview

Anti-Histone H2A.Z (acetyl K4 + K7 + K11) antibody (ab18262) at 1/1000 dilution + HeLa whole cell lysate at 10 µg

Secondary

HRP-conjugated donkey anti-sheep IgG polyclonal at 1/5000 dilution

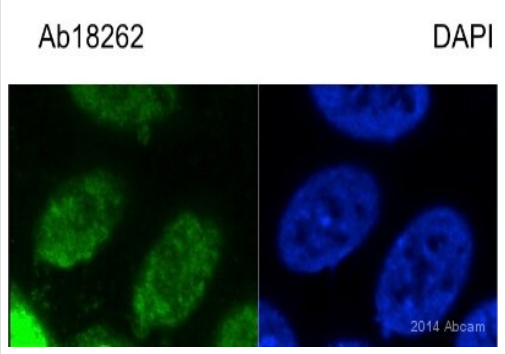
Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 13 kDa

Observed band size: 13 kDa

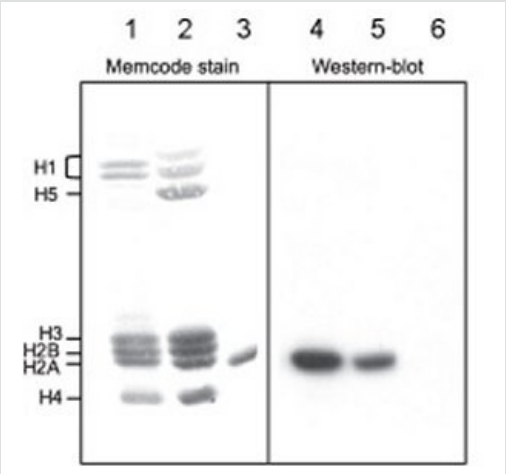
Exposure time: 2 minutes



Immunocytochemistry/ Immunofluorescence - Anti-Histone H2A.Z (acetyl K4 + K7 + K11) antibody (ab18262)

This image is courtesy of an anonymous Abreview

ab18262 staining Histone H2A.Z (acetyl K4 + K7 + K11) in HeLa cells by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with paraformaldehyde, permeabilized with 0.5% Triton X-100 and blocked with 3% BSA for 1 hour at 22°C. Samples were incubated with primary antibody (1/500 in PBS + 1% BSA) for 1 hour at 22°C. An Alexa Fluor® 488-conjugated donkey anti-sheep IgG polyclonal (1/1000) was used as the secondary antibody.



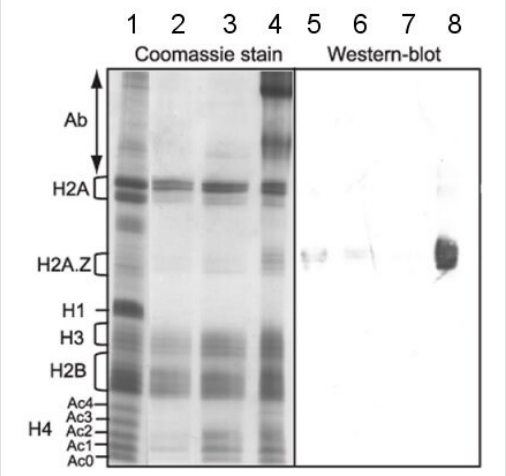
Western blot - Anti-Histone H2A.Z (acetyl K4 + K7 + K11) antibody (ab18262)

This image is courtesy of Prof Colyn Crane-Robinson

All lanes : Anti-Histone H2A.Z (acetyl K4 + K7 + K11) antibody (ab18262)

Lanes 1 & 4 : Butyrate-treated HeLa histones
Lanes 2 & 5 : 15-day embryo chicken erythrocyte histones
Lanes 3 & 6 : Recombinant H2A.Z

Predicted band size: 13 kDa
Observed band size: 13 kDa



Western blot - Anti-Histone H2A.Z (acetyl K4 + K7 + K11) antibody (ab18262)

This image is courtesy of Prof Colyn Crane-Robinson

All lanes : Anti-Histone H2A.Z (acetyl K4 + K7 + K11) antibody (ab18262)

Lanes 1 & 5 : Butyrate-treated HeLa histones
Lanes 2 & 6 : Nucleosomes from 10-day chicken brain tissue. ChIP Input.
Lanes 3 & 7 : Nucleosomes from 10-day chicken brain tissue. ChIP Unbound.
Lanes 4 & 8 : Nucleosomes from 10-day chicken brain tissue. ChIP Bound.

Predicted band size: 13 kDa
Observed band size: 13 kDa

Nucleosomes from 10-day chicken brain tissue were used in ChIP experiments. An acetic acid / urea / Triton gel was run and the corresponding western blot using ab18262 was used to compare

proteins in the Bound chromatin fraction with those of the Input and Unbound fractions. In lane 8 there is a strong diffuse band corresponding to a hyper-acetylated H2A.Z.

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