abcam

Product datasheet

Anti-Histone H2B (acetyl K15) antibody [EP955Y] - ChIP Grade ab62335



★★★★ <u>6 Abreviews</u> 4 References

概述

产品名称 Anti-Histone H2B (acetyl K15)抗体[EP955Y] - ChIP Grade

兔单克隆抗体[EP955Y] to Histone H2B (acetyl K15) - ChIP Grade 描述

宿主 Rabbit

特异性 This antibody only detects Histone H2B acetylated on Lysine 15.

经测试应用 适用于: ChIP-sequencing, WB, IHC-P

不适用于: ℙ

种属反应性 与反应: Mouse, Human

预测可用于: Rat 📤

免疫原 Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.

阳性对照 HeLa whole cell lysate (ab150035) or human breast carcinoma tissue; ChIP-seq: Chromatin

prepared from HeLa 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

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: 7.20

Preservative: 0.05% Sodium azide

Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue

culture supernatant

1

纯**度** Protein A purified

克隆 单克隆

克隆编号 EP955Y

同种型 IgG

应用

The Abpromise quarantee Abpromise™承诺保证使用ab62335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-sequencing		Use 4µg for 10 ⁷ cells.
WB	★★★★ (2)	1/2000 - 1/5000. Detects a band of approximately 17 kDa (predicted molecular weight: 14 kDa).
IHC-P	★★★★ <u>(1)</u>	1/100 - 1/250.

应用说明

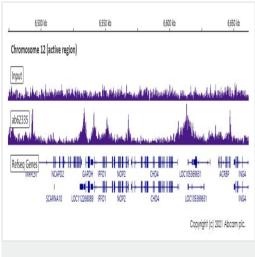
Is unsuitable for IP.

靶标

相关性

Core component of nucleosome. 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. Subunit structure The nucleosome is a histone octamer containing two molecules each of H2A, H2B, H3 and H4 assembled in one H3-H4 heterotetramer and two H2A-H2B heterodimers. The octamer wraps approximately 147 bp of DNA. Post-translational modification Monoubiquitination at Lys-35 (H2BK34Ub) by the MSL1/MSL2 dimer is required for histone H3 'Lys-4' (H3K4me) and 'Lys-79' (H3K79me) methylation and transcription activation at specific gene loci, such as HOXA9 and MEIS1 loci. Similarly, monoubiquitination at Lys-121 (H2BK120Ub) by the RNF20/40 complex gives a specific tag for epigenetic transcriptional activation and is also prerequisite for histone H3 'Lys-4' and 'Lys-79' methylation. It also functions cooperatively with the FACT dimer to stimulate elongation by RNA polymerase II. H2BK120Ub also acts as a regulator of mRNA splicing: deubiquitination by USP49 is required for efficient cotranscriptional splicing of a large set of exons. Phosphorylation at Ser-37 (H2BS36ph) by AMPK in response to stress promotes transcription. Phosphorylated on Ser-15 (H2BS14ph) by STK4/MST1 during apoptosis; which facilitates apoptotic chromatin condensation. Also phosphorylated on Ser-15 in response to DNA double strand breaks (DSBs), and in correlation with somatic hypermutation and immunoglobulin class-switch recombination. GlcNAcylation at Ser-113 promotes monoubiquitination of Lys-121. It fluctuates in response to extracellular glucose, and associates with transcribed genes. Crotonylation (Kcr) is specifically present in male germ cells and marks testis-specific genes in post-meiotic cells, including X-linked genes that escape sex chromosome inactivation in haploid cells. Crotonylation marks active promoters and enhancers and confers resistance to transcriptional repressors. It is also associated with post-meiotically activated genes on autosomes.

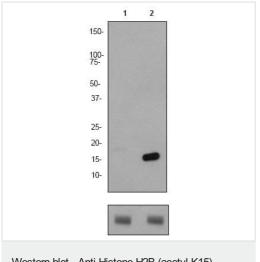
图片



Chromatin was prepared from HeLa cells. Cells were fixed with 1% formaldehyde for 10 minutes. ChIP was performed with 10^7 HeLa cells and 4 μg of ab62335 [EP955Y]. ChIP DNA was sequenced on the Illumina NovaSeq 6000 to a depth of 30 million reads.

Additional screenshots of mapped reads can be downloaded **here**.

ChIP-sequencing - Anti-Histone H2B (acetyl K15) antibody [EP955Y] - ChIP Grade (ab62335)



Western blot - Anti-Histone H2B (acetyl K15) antibody [EP955Y] - ChIP Grade (ab62335) **All lanes :** Anti-Histone H2B (acetyl K15) antibody [EP955Y] - ChIP Grade (ab62335) at 1/2000 dilution

Lane 1: HeLa cell lysate (untreated)

Lane 2: HeLa cell lysate (treated with TSA)

Lysates/proteins at 10 µg per lane.

Secondary

All lanes: Goat anti-Rabbit HRP conjugate at 1/2000 dilution

Predicted band size: 14 kDa
Observed band size: 17 kDa

The bottom image shows beta Tubulin as a positive control.



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-Histone H2B (acetyl K15) antibody [EP955Y] - ChIP Grade (ab62335)

Ab62335 (1/100-1/250) staining human Histone H2B in human breast carcinoma tissue by immunohistochemistry using paraffin embedded tissue.



Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- · Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.cn/abpromise or contact our technical team.

Terms and conditions

· Guarantee only valid for products bought direct from Abcam or one of our authorized distributors