

Product datasheet

Anti-Histone H2B (acetyl) antibody - ChIP Grade ab1759

★★★★☆ 3 Abreviews 12 References 画像数 3

製品の概要

製品名	Anti-Histone H2B (acetyl) antibody - ChIP Grade
製品の詳細	Rabbit polyclonal to Histone H2B (acetyl) - ChIP Grade
由来種	Rabbit
特異性	This antibody recognises acetylated Lys 12 and/or Lysine 15 of Histone H2B.
アプリケーション	適用あり: Flow Cyt, IHC-P, ChIP, ELISA, IP, WB, ICC/IF
種交差性	交差種: Mouse, Rat, Human, Drosophila melanogaster, Toxoplasma gondii
免疫原	Synthetic peptide corresponding to Histone H2B aa 9-20. Sequence: APKK(Ac)GSK(Ac)KAVYC <div style="text-align: right;"> Run BLAST with Run BLAST with </div>
ポジティブ・コントロール	IHC-P: Human normal colon FFPE tissue sections.
特記事項	ab171870 - Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.

製品の特性

製品の状態	Liquid
保存方法	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.
バッファー	Preservative: 0.02% Sodium azide
精製度	Whole antiserum
ポリ/モノ	ポリクローナル
アイソタイプ	IgG

アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab1759** in the following tested applications.

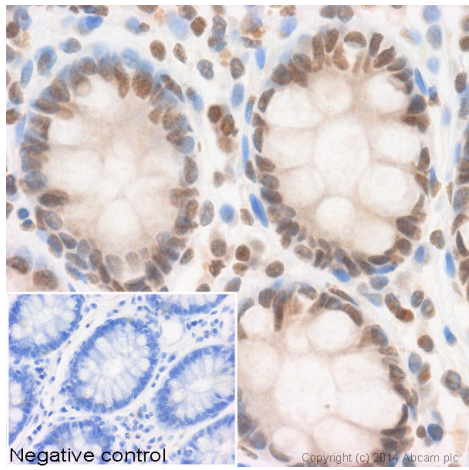
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Abreviews	特記事項
Flow Cyt		1/200. ab171870 - Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.
IHC-P		1/1000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ChIP		Use at an assay dependent concentration.
ELISA		1/400.
IP		Use at an assay dependent concentration.
WB	★★★★☆	1/400.
ICC/IF	★★★★☆	1/200.

ターゲット情報

機能	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.
配列類似性	Belongs to the histone H2B family.
翻訳後修飾	Monoubiquitination of Lys-121 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. Phosphorylated on Ser-15 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.
細胞内局在	Nucleus. Chromosome.

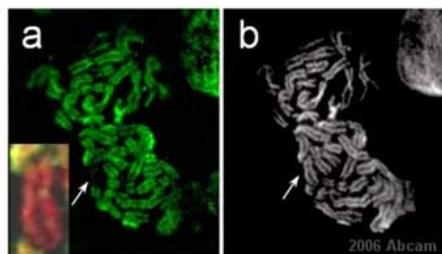
画像



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Histone H2B (acetyl) antibody - ChIP Grade (ab1759)

IHC image of ab1759 staining Histone H2B (acetyl) in human colon formalin fixed paraffin embedded tissue sections, performed on a Leica Bond. 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 ab1759, 1/1000 dilution, 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. No primary antibody was used in the negative control (shown on the inset).

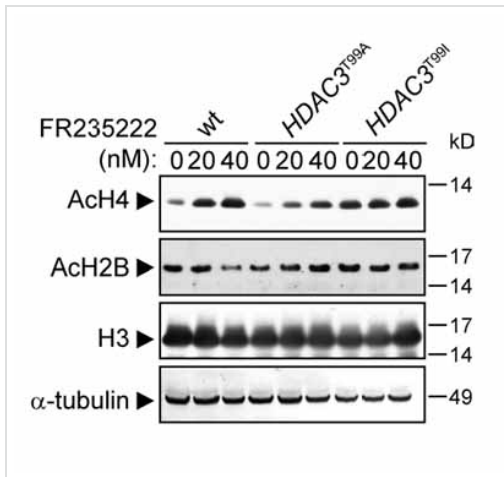
For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



Immunocytochemistry/ Immunofluorescence - Anti-Histone H2B (acetyl) antibody - ChIP Grade (ab1759)

ab1759 at a dilution of 1/200 staining the Female lymphoblastoid cell line, GM12616, by immunocytochemistry. The antibody was incubated with the cells for 1 hour and then detected with a polyclonal goat anti-rabbit FITC.

The DAPI counterstain is shown pseudocoloured as white in (b). A pale staining chromosome could be identified based on the low level of histone H2B acetylation of the inactive X chromosome. An enlargement of the pale staining chromosome is shown with DAPI pseudocoloured as red for contrast against the antibody (green).



Western blot - Anti-Histone H2B (acetyl) antibody - ChIP Grade (ab1759)

Image from Bougdour A et al, J Exp Med 206:953-66 (2009), Fig S2.

ab1759 used in Western Blot.

FR235222 treatment specifically affects the acetylation status of histone H4 but not the acetylation levels of H3 and H2B. Extracellular *T. gondii* parasites (RH WT, R20D9 [TgHDAC3T99A], and M3135E11 [TgHDAC3T99]) were treated with the indicated concentrations of FR235222 for 4 hours and lysed. 50µg of total cell lysates were analyzed by Immunoblotting with an anti-AcH4, anti-AcH2B (ab1759 at a 1/1000 dilution), anti-H3 and anti-alpha-tubulin antibodies.

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