abcam

Product datasheet

HRP Anti-Histone H2B antibody ab64039

1 References 画像数 2

製品の概要

製品名	HRP Anti-Histone H2B antibody
製品の詳細	HRP Rabbit polyclonal to Histone H2B
由来種	Rabbit
標識	HRP
アプリケーション	**適用あり:** WB
種交差性	**交差種:** Mouse, Rat, Recombinant fragment **交差が予測される動物種:** Chicken, Cow, Human, Xenopus laevis, Caenorhabditis elegans, Drosophila melanogaster, Zebrafish, Orangutan
免疫原	Synthetic peptide corresponding to Human Histone H2B aa 100 to the C-terminus (C terminal) conjugated to keyhole limpet haemocyanin. (Peptide available as **ab16101**)
ポジティブ・コントロール	This antibody gave a positive signal in NIH3T3 and PC12 whole cell lysates, and when tested against Histone H2B recombinant protein.
特記事項	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. 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

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). Store at -20°C. Avoid freeze / thaw cycle. Store In the Dark.
バッファー	pH: 7.40 Preservative: 0.1% Proclin 300 Solution Constituents: PBS, 1% BSA, 30% Glycerol (glycerin, glycerine)
精製度	Immunogen affinity purified
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

The Abpromise guarantee **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab64039の使用に適用されます

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		1/40000. Detects a band of approximately 17 kDa (predicted molecular weight: 15 kDa).

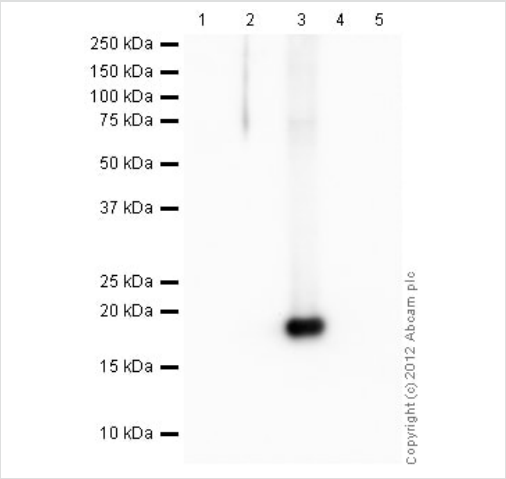
ターゲット情報

関連性

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.

細胞内局在 Nuclear

画像



Western blot - HRP Anti-Histone H2B antibody (ab64039)

All lanes : HRP Anti-Histone H2B antibody (ab64039) at 1/40000 dilution

Lane 1 : Histone H1 Recombinant Protein
Lane 2 : Histone H2A Recombinant Protein
Lane 3 : Histone H2B Recombinant Protein
Lane 4 : Histone H3.1 Recombinant Protein
Lane 5 : Histone H4 Recombinant Protein

Lysates/proteins at 0.1 µg per lane.

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 15 kDa
Observed band size: 17 kDa

Exposure time: 10 seconds

Western blot - HRP Anti-Histone H2B antibody (ab64039)

All lanes : HRP Anti-Histone H2B antibody (ab64039) at 1/40000 dilution

Lane 1 : NIH 3T3 (Mouse embryonic fibroblast cell line) Whole Cell Lysate
Lane 2 : PC12 (Rat adrenal pheochromocytoma cell line) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 15 kDa
Observed band size: 18 kDa

Exposure time: 10 seconds

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