

Anti-Histone H2A (phospho S129) antibody ab15083

★★★★★ [3 Abreviews](#) [85 References](#) [画像数 4](#)

製品の概要

製品名	Anti-Histone H2A (phospho S129) antibody
製品の詳細	Rabbit polyclonal to Histone H2A (phospho S129)
由来種	Rabbit
アプリケーション	適用あり: WB, ELISA, PepArr
種交差性	交差種: Saccharomyces cerevisiae 非交差種: Human
免疫原	Synthetic peptide corresponding to Saccharomyces cerevisiae Histone H2A aa 100 to the C-terminus (phospho S129) conjugated to bovine serum albumin. Database link: P04911
特記事項	<p>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.</p> <p>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</p>

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	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS
精製度	Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.
ポリ/モノ	Immunogen affinity purified ポリクローナル

アプリケーション

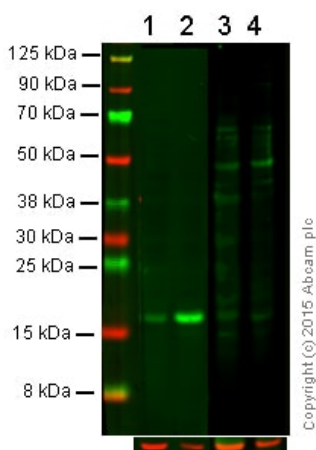
The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab15083の使用に適用されます**
 アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB	★★★★★ (2)	1/500 - 1/1000. Detects a band of approximately 14 kDa (predicted molecular weight: 14 kDa).
ELISA		Use at an assay dependent concentration.
PepArr		Use a concentration of 0.2 - 0.02 µg/ml.

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 H2A family.
翻訳後修飾	<p>The chromatin-associated form is phosphorylated on Thr-121 during mitosis.</p> <p>Deiminated on Arg-4 in granulocytes upon calcium entry.</p> <p>Monoubiquitination of Lys-120 by RING1 and RNF2/RING2 complex gives a specific tag for epigenetic transcriptional repression and participates in X chromosome inactivation of female mammals. It is involved in the initiation of both imprinted and random X inactivation. Ubiquitinated H2A is enriched in inactive X chromosome chromatin. Ubiquitination of H2A functions downstream of methylation of 'Lys-27' of histone H3. Monoubiquitination of Lys-120 by RNF2/RING2 can also be induced by ultraviolet and may be involved in DNA repair. Following DNA double-strand breaks (DSBs), it is ubiquitinated through 'Lys-63' linkage of ubiquitin moieties by the E2 ligase UBE2N and the E3 ligases RNF8 and RNF168, leading to the recruitment of repair proteins to sites of DNA damage. Monoubiquitination and ionizing radiation-induced 'Lys-63'-linked ubiquitination are distinct events.</p> <p>Phosphorylation on Ser-2 is enhanced during mitosis. Phosphorylation on Ser-2 by RPS6KA5/MSK1 directly represses transcription. Acetylation of H3 inhibits Ser-2 phosphorylation by RPS6KA5/MSK1.</p> <p>Symmetric dimethylation on Arg-4 by the PRDM1/PRMT5 complex may play a crucial role in the germ-cell lineage.</p>
細胞内局在	Nucleus. Chromosome.

画像



Western blot - Anti-Histone H2A (phospho S129) antibody (ab15083)

All lanes : Anti-Histone H2A (phospho S129) antibody (ab15083) at 1/500 dilution

Lane 1 : S.cerevisiae yeast extract (SCYE) + control peptide with Human Histone H2A peptide ([ab19751](#))

Lane 2 : S.cerevisiae yeast extract with 0.2 % Methyl methanesulfonate (1 hour) with Human Histone H2A peptide ([ab19751](#))

Lane 3 : SCYE + phospho peptide with Histone H2A peptide - phospho S129 ([ab19828](#))

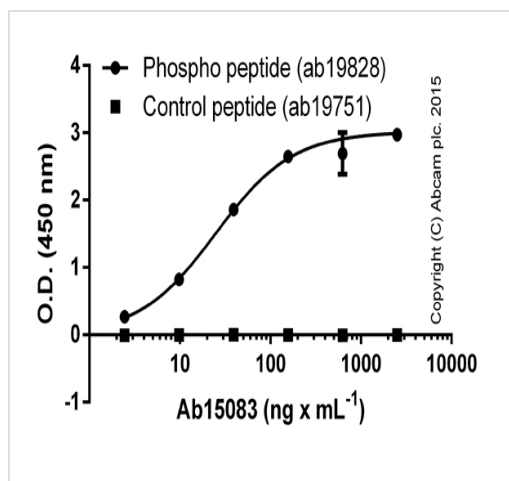
Lane 4 : SCYE_M + phospho peptide with Histone H2A peptide - phospho S129 ([ab19828](#))

Lysates/proteins at 10 µg per lane.

Performed under reducing conditions.

Predicted band size: 14 kDa

The blots were produced using a 4-12% Bis-tris gel under the MES buffer system. The gel was run at 200V for 35 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membranes were then blocked for an hour. 1 microgram per mL of control- ([ab19751](#), lane 1 and 2) or phospho-peptides ([ab19828](#), lane 3 and 4) were added to the primary antibody ab15083 (rabbit anti-Histone H2A (phospho S129) antibody; diluted 1:500) and loading control [ab125247](#) (mouse anti-GAPDH antibody; diluted 1:20000) and the membranes were incubated with peptide/antibody mixture for 24 hours at 4°C. Antibody binding was detected using infrared (IR)-labelled goat anti-rabbit (green) and IR-labelled goat anti-mouse (red; insert below) antibodies, diluted 1:20,000, for 1 hour at room temperature before imaging.



ELISA - Anti-Histone H2A (phospho S129) antibody (ab15083)

Serially diluted ab15083 was bound to immobilised phospho (**ab19828**) - or control (**ab19751**) peptides (1 microgram x mL⁻¹). The antibody was detected by HRP-labelled goat anti-rabbit IgG (**ab97080**; diluted 50000 times) and signal was developed with TMB substrate.



Western blot - Anti-Histone H2A (phospho S129) antibody (ab15083)

Anti-Histone H2A (phospho S129) antibody (ab15083) at 1 µg/ml + *S.cerevisiae* (Y190) Whole Cell Lysate at 10 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (**ab97080**) at 1/5000 dilution

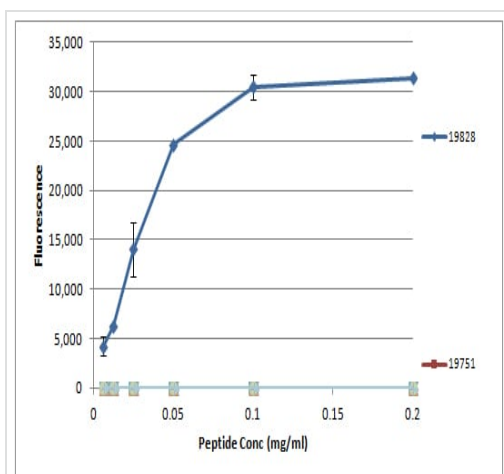
Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 14 kDa

Additional bands at: 17 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 90 seconds



Peptide Array - Anti-Histone H2A (phospho S129) antibody (ab15083)

All batches of ab15083 are tested in Peptide Array against peptides to different Histone H2A modifications. Six dilutions of each peptide are printed on to the Peptide Array in triplicate and results are averaged before being plotted on to a graph. Results show strong binding to Histone H2A - phospho S129 (**ab19828**), indicating that this antibody specifically recognises the Histone H2A - phospho S129 modification.

ab19828 - Histone H2A - phospho S129

ab19751 - Histone H2A - unmodified

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