abcam

Product datasheet

Anti-Histone H4 (acetyl K12) antibody ab61238

6 Abreviews 22 References 画像数 4

製品の概要

製品名	Anti-Histone H4 (acetyl K12) antibody
製品の詳細	Rabbit polyclonal to Histone H4 (acetyl K12)
由来種	Rabbit
アプリケーション	**適用あり:** ELISA, ICC/IF, IHC-P, WB
種交差性	**交差種:** Mouse, Human, Drosophila melanogaster, African green monkey **交差が予測される動物種:** Rat
免疫原	Synthetic peptide corresponding to Human Histone H4 aa 10-15 (acetyl K12). Synthetic acetylated peptide derived from human Histone H4 around the acetylation site of lysine 12 LGK(Ac)GG Sequence: LGK(Ac)GG Database link: **P62805** Run BLAST with Run BLAST with
ポジティブ・コントロール	WB: Extracts from COS7 cells, treated with TSA (400nM, 24hours); KB cells, HEK-293 cells (with TSA 400nM 24h). IHC-P: Human breast carcinoma tissue
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 -20°C. Stable for 12 months at -20°C.
バッファー	pH: 7.40 Preservative: 0.02% Sodium azide

	Constituents: PBS, 50% Glycerol (glycerin, glycerine), 0.87% Sodium chloride Without Mg2+ and Ca2+
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ab61238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
ELISA		Use at an assay dependent concentration.
ICC/IF	★★★★★ (1)	Use at an assay dependent concentration.
IHC-P	★★★★★ (1)	1/50 - 1/100.
WB	★★★★☆ (2)	1/500 - 1/1000. Detects a band of approximately 11 kDa (predicted molecular weight: 11 kDa).

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

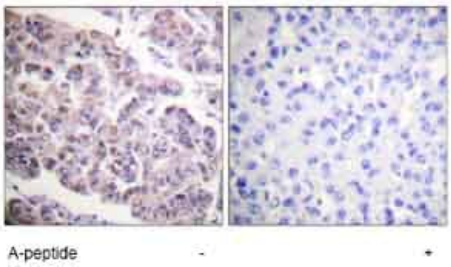
Belongs to the histone H4 family.

翻訳後修飾

Acetylation at Lys-6 (H4K5ac), Lys-9 (H4K8ac), Lys-13 (H4K12ac) and Lys-17 (H4K16ac) occurs in coding regions of the genome but not in heterochromatin.
Citrullination at Arg-4 (H4R3ci) by PADI4 impairs methylation.
Monomethylation and asymmetric dimethylation at Arg-4 (H4R3me1 and H4R3me2a, respectively) by PRMT1 favors acetylation at Lys-9 (H4K8ac) and Lys-13 (H4K12ac). Demethylation is performed by JMJD6. Symmetric dimethylation on Arg-4 (H4R3me2s) by the PRDM1/PRMT5 complex may play a crucial role in the germ-cell lineage.
Monomethylated, dimethylated or trimethylated at Lys-21 (H4K20me1, H4K20me2, H4K20me3). Monomethylation is performed by SET8. Trimethylation is performed by SUV420H1 and SUV420H2 and induces gene silencing.
Ubiquitinated by the CUL4-DDB-RBX1 complex in response to ultraviolet irradiation. This may weaken the interaction between histones and DNA and facilitate DNA accessibility to repair proteins. Monoubiquitinated at Lys-92 of histone H4 (H4K91ub1) in response to DNA damage. The exact role of H4K91ub1 in DNA damage response is still unclear but it may function as a licensing signal for additional histone H4 post-translational modifications such as H4 Lys-21 methylation (H4K20me).
Sumoylated, which is associated with transcriptional repression.

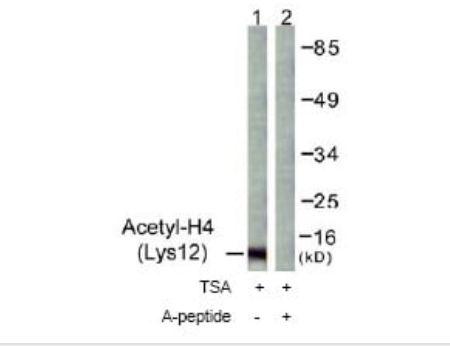
細胞内局在 Nucleus. Chromosome.

画像



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Histone H4 (acetyl K12) antibody (ab61238)

Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue using Histone H4 (acetyl K12) antibody (ab61238) at 1/50 - 1/100 dilution, in the presence (right panel) and absence (left panel) of acetylated peptide.

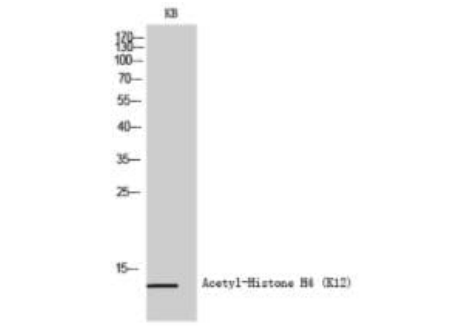


Western blot - Anti-Histone H4 (acetyl K12) antibody (ab61238)

All lanes : Anti-Histone H4 (acetyl K12) antibody (ab61238) at 1/500 dilution

Lane 1 : Extracts from COS7 cells, treated with TSA (400nM, 24hours) with no acetylated peptide
Lane 2 : Extracts from COS7 cells, treated with TSA (400nM, 24hours) with acetylated peptide

Predicted band size: 11 kDa
Observed band size: 11 kDa



Western blot - Anti-Histone H4 (acetyl K12) antibody (ab61238)

Anti-Histone H4 (acetyl K12) antibody (ab61238) at 1/500 dilution + KB cells

Predicted band size: 11 kDa

Western blot - Anti-Histone H4 (acetyl K12) antibody (ab61238)

All lanes : Anti-Histone H4 (acetyl K12) antibody (ab61238) at 1/500 dilution

Lane 1 : HEK-293 cells (with TSA 400nM 24h)
Lane 2 : HEK-293 cells (without TSA 400nM 24h)

Predicted band size: 11 kDa

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