


Product datasheet

Anti-Histone H4 (acetyl K5) antibody ab124636

3 图像

概述

产品名称	Anti-Histone H4 (acetyl K5)抗体
描述	兔多克隆抗体to Histone H4 (acetyl K5)
宿主	Rabbit
特异性	ab124636 detects endogenous levels of total Histone H4 protein only when acetylated at Lysine 5.
经测试应用	适用于: WB, ELISA, IHC-P, ICC/IF
种属反应性	与反应: Human 预测可用于: Mouse, Rat 
免疫原	Synthetic peptide corresponding to Human Histone H4 (acetyl K5). A synthetic peptide from human Histone H4 around the acetylated site of Lys5. Database link: P62805
阳性对照	Human prostate, COS7 cells, HeLa cells.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
存储溶液	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 49% PBS, 50% Glycerol, 0.9% Sodium chloride Note: without Mg ²⁺ , Ca ²⁺
纯度	Immunogen affinity purified
克隆	多克隆
同种型	IgG

应用

Our [Abpromise guarantee](#) covers the use of **ab124636** in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明
WB		1/500 - 1/1000. Predicted molecular weight: 11 kDa.
ELISA		1/1000.
IHC-P		Use a concentration of 5 µg/ml.
ICC/IF		1/100 - 1/500.

靶标

功能

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.

序列相似性

Belongs to the histone H4 family.

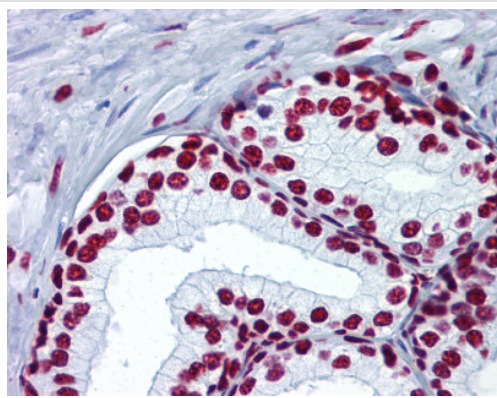
翻译后修饰

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.

细胞定位

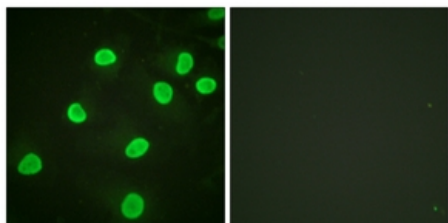
Nucleus. Chromosome.

图片



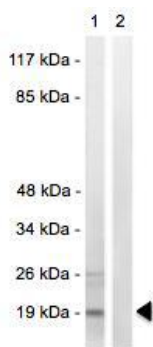
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Histone H4 (acetyl K5) antibody (ab124636)

ab124636, at 5µg/mL, staining Human prostate by immunohistochemistry of paraffin embedded tissues (IHC-P).



Immunocytochemistry/ Immunofluorescence - Anti-Histone H4 (acetyl K5) antibody (ab124636)

ab124636, at 1/100 dilution, staining HeLa cells, by immunofluorescence. The picture on the right is treated with synthesized peptide.



Western blot - Anti-Histone H4 (acetyl K5) antibody (ab124636)

All lanes : Anti-Histone H4 (acetyl K5) antibody (ab124636) at 1/500 dilution

Lane 1 : COS7 cell extract, treated with TSA 400nM 24h.

Lane 2 : COS7 cell extract, treated with TSA 400nM 24h. with synthesized peptide

Predicted band size: 11 kDa

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