

Product datasheet

Anti-Histone H4 (phospho T96) antibody ab27327

1 图像

概述

产品名称 Anti-Histone H4 (phospho T96)抗体
描述 兔多克隆抗体to Histone H4 (phospho T96)

i 该产品是 **快线抗体**，通过亲和纯化得到。对抗原肽有高灵敏度及特异性 (ELISA测试)。

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宿主 Rabbit
种属反应性 **预测可用于:** Mouse, Rat, Chicken, Human, Pig, Saccharomyces cerevisiae **⚠**
免疫原 Synthetic peptide corresponding to Human Histone H4 aa 50 to the C-terminus (phospho T96) conjugated to Keyhole Limpet Haemocyanin (KLH).
 Database link: [P62805](#)
 (Peptide available as [ab27896](#))

性能

形式 Liquid
存放说明 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.
存储溶液 Preservative: 0.02% Sodium Azide
 Constituents: 1% BSA, PBS, pH 7.4
纯度 Immunogen affinity purified
克隆 多克隆
同种型 IgG

应用

Fast track antibodies constitute a diverse group of products that have been released to accelerate your research, but are not yet fully characterized. They have all been affinity purified and show high titre values against the immunizing peptide (by ELISA).

[Fast track terms of use](#)

应用	Ab 评论	说明
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ELISA Use at an assay dependent concentration.
 This antibody gave a positive result in ELISA against the immunizing peptide ([ab27896](#)). It gave a negative result in ELISA against the non-modified equivalent peptide ([ab27897](#)). This indicates that it is specific for the modified peptide. See figure below.

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.

疾病相关 Chromosomal aberrations involving HISTONE H4 is a cause of B-cell non-Hodgkin lymphomas (B-cell NHL). Translocation t(3;6)(q27;p21), with BCL6.

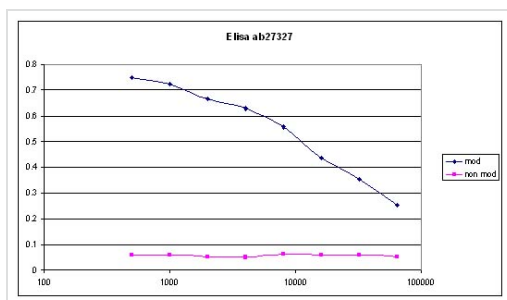
序列相似性 Belongs to the histone H4 family.

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 PAD4 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.
 Phosphorylated by PAK2 at Ser-48 (H4S47ph). This phosphorylation increases the association of H3.3-H4 with the histone chaperone HIRA, thus promoting nucleosome assembly of H3.3-H4 and inhibiting nucleosome assembly of H3.1-H4.
 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.
 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.

细胞定位 Nucleus. Chromosome.

图片

This Fast-Track antibody is not yet fully characterised. These images represent **inconclusive preliminary data**.



ELISA - Histone H4 (phospho T96) antibody
(ab27327)

This antibody gave a positive result in ELISA against the immunizing peptide [ab27896](#) (blue line). It gave a negative result in ELISA against the non-modified equivalent peptide [ab27897](#) (pink line). This indicates that it is specific for the modified peptide.

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