

# Anti-Histone H4 (citrulline R3) antibody ab81797

★★★★★ [1 Abreviews](#) [8 References](#) [1 图像](#)

### 概述

产品名称	Anti-Histone H4 (citrulline R3)抗体
描述	兔多克隆抗体to Histone H4 (citrulline R3)
宿主	Rabbit
特异性	This antibody reacts specifically with human Histone H4 Citrulline at position 3 (10kDa). The antibody does not cross react with free H4 nor with other citrullinated proteins.
经测试应用	<b>适用于:</b> ELISA, WB, IHC-P
种属反应性	<b>与反应:</b> Human
免疫原	Synthetic peptide corresponding to Human Histone H4 (N terminal) (citrulline R3). Database link: <a href="#">P62805</a> (Peptide available as <a href="#">ab171570</a> )
常规说明	<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&amp;As</p>

### 性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
存储溶液	Constituent: Whole serum
纯度	Whole antiserum
克隆	多克隆
同种型	IgG

### 应用

The Abpromise guarantee

**Abpromise™** 承诺保证使用ab81797于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
ELISA		1/5000 - 1/10000.
WB	★ ★ ★ ★ ★ (1)	Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration.

## 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 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.

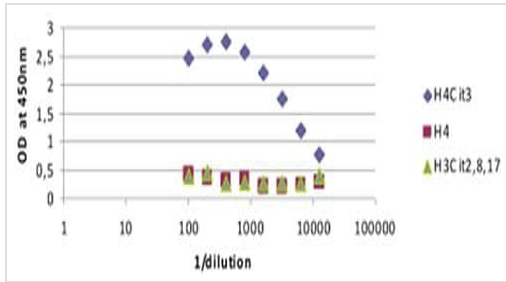
Ubiquitinated by the CUL4-DDB-RBX1 complex in response to ultraviolet irradiation. This may weaken the interaction between histones and DNA and facilitate DNA accessibility to repair proteins. Monoubiquitinated at Lys-92 of histone H4 (H4K91ub1) in response to DNA damage. The exact role of H4K91ub1 in 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



ELISA control of the specificity of ab81797 using H4-3cit peptide, H4-Arg3 peptide and H3-cit2, 8, 17 peptide.

ELISA - Anti-Histone H4 (citrulline R3) antibody (ab81797)

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