

# Histone H4 (Di Methyl Lys59) Rabbit pAb

CatalogNo: YH0026

## Key Features

### Host Species

- Rabbit

### Reactivity

- Human, Mouse, Rat

### Applications

- WB

### MW

- 14kD (Observed)

### Isotype

- IgG

## Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation** PBS, pH 7.4, containing 0.5% BSA, 0.02% sodium azide as Preservative and 50% Glycerol.

## Recommended Dilution Ratios

**WB 1:500-1000**

## Basic Information

**Clonality** Polyclonal

## Immunogen Information

**Immunogen** Synthetic Peptide of Histone H4 (Di Methyl Lys59)

**Specificity** The antibody detects endogenous Histone H4 (Di Methyl Lys59) protein.

## Target Information

**Gene name** HIST1H4A/HIST1H4B/HIST1H4C/HIST1H4D/HIST1H4E/HIST1H4F/HIST1H4H/HIST1H4I/HIST1H4J/HIST1H4K/HIST1H4L/HIST2H4A/HIST2H4B/HIST4H4

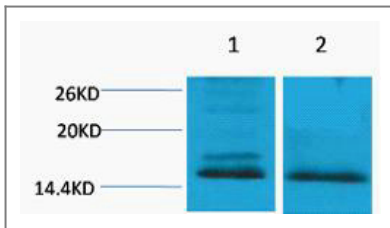
<b>Protein Name</b>	Histone H4		
<b>Organism</b>	<b>Gene ID</b>	<b>UniProt ID</b>	
Human	<a href="#">121504</a> ; <a href="#">554313</a> ; <a href="#">8294</a> ; <a href="#">8359</a> ; <a href="#">8360</a> ; <a href="#">8361</a> ; <a href="#">8362</a> ; <a href="#">8363</a> ; <a href="#">8364</a> ; <a href="#">8365</a> ; <a href="#">8366</a> ; <a href="#">8367</a> ; <a href="#">8368</a> ; <a href="#">8370</a> ;	<a href="#">P62805</a> ;	
Mouse	<a href="#">100041230</a> ;	<a href="#">P62806</a> ;	
Rat	<a href="#">100360950</a> ;	<a href="#">P62804</a> ;	

**Cellular Localization** Nucleus. Chromosome.

**Tissue specificity** B-cell lymphoma,Bone marrow,Brain,Clones donated by HIP,Corpus call

**Function** Function: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.,PTM:Acetylation at Lys-6, Lys-9, Lys-13 and Lys-17 occurs in coding regions of the genome but not in heterochromatin.,PTM:Citrullination at Arg-4 by PADI4 impairs methylation.,PTM:Monomethylated, dimethylated or trimethylated at Lys-21. Monomethylation is performed by SET8. Trimethylation is performed by SUV420H1 and SUV420H2 and induces gene silencing.,PTM:Monomethylation at Arg-4 by PRMT1 favors acetylation at Lys-9 and Lys-13. Demethylation is performed by JMJD6.,PTM:Sumoylated, which is associated with transcriptional repression.,PTM: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.,similarity:Belongs to the histone H4 family.,subunit:The nucleosome is a histone octamer containing two molecules each of H2A, H2B, H3 and H4 assembled in one H3-H4 heterotetramer and two H2A-H2B heterodimers. The octamer wraps approximately 147 bp of DNA.,

## Validation Data



Western blot analysis of 1) HeLa, 2) 3T3, diluted at 1:2000. Secondary antibody(catalog#:RS0002) was diluted at 1:20000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003,Inventbiotech,MN,USA).

## Contact information

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Please scan the QR code to access additional product information:  
**Histone H4 (Di Methyl Lys59) Rabbit pAb**

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