

# Histone H4 (Acetyl Lys16) Rabbit pAb

CatalogNo: YK0187 Orthogonal Validated 

## Key Features

### Host Species

- Rabbit

### Reactivity

- Human, Mouse, Rat

### Applications

- WB, IHC, IF

### 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

IF 1:50-200

WB 1:1000-2000

IHC 1:50-300

## Basic Information

**Clonality** Polyclonal

## Immunogen Information

**Immunogen** Synthetic Peptide of Histone H4 (Acetyl Lys16)

**Specificity** The antibody detects endogenous Histone H3 (Acetyl Lys16) protein.

## Target Information

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

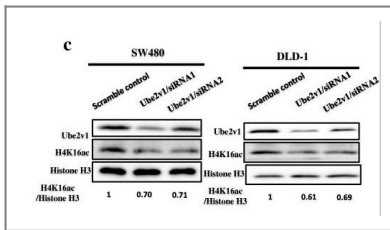
<b>Protein Name</b>	Histone H4		
<b>Organism</b>		<b>Gene ID</b>	<b>UniProt ID</b>
Human	<a href="#">121504</a> ; <a href="#">554313</a> ; <a href="#">8294</a> ; <a href="#">8359</a> ; <a href="#">8360</a> ; <a href="#">8361</a> ; <a href="#">8362</a> ; <a href="#">8363</a> ; <a href="#">8364</a> ; <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.

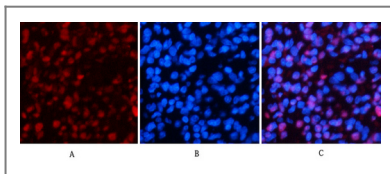
**Tissue specificity** B-cell lymphoma ,Bone marrow ,Brain ,Clones donated by HIP ,Corpus call

**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. ,

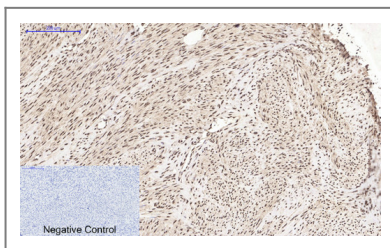
## Validation Data



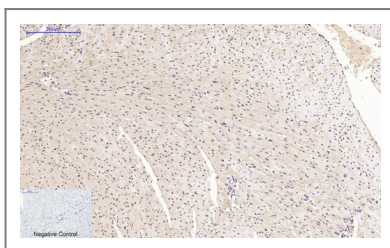
Shen, Tong, et al. "Ube2v1-mediated ubiquitination and degradation of Sirt1 promotes metastasis of colorectal cancer by epigenetically suppressing autophagy." *Journal of hematology & oncology* 11.1 (2018): 95.



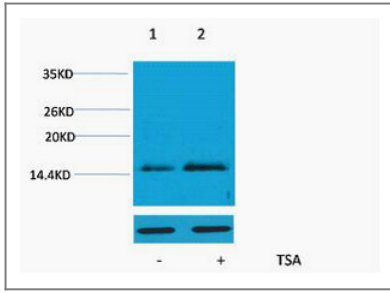
Immunofluorescence analysis of rat-lung tissue. 1, Histone H4 (Acetyl Lys16) Polyclonal Antibody (red) was diluted at 1:200 (4°C overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50min). 3, Picture B: DAPI (blue) 10min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B



Immunohistochemical analysis of paraffin-embedded Human-uterus tissue. 1, Histone H4 (Acetyl Lys16) Polyclonal Antibody was diluted at 1:200 (4°C overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C, 20min). 3, Secondary antibody was diluted at 1:200 (room temperature, 30min). Negative control was used by secondary antibody only.



Immunohistochemical analysis of paraffin-embedded Mouse-heart tissue. 1, Histone H4 (Acetyl Lys16) Polyclonal Antibody was diluted at 1:200 (4°C overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C, 20min). 3, Secondary antibody was diluted at 1:200 (room temperature, 30min). Negative control was used by secondary antibody only.



Western blot analysis of extracts from HeLa cells, untreated (-) or treated, 1:5000. 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 (Acetyl Lys16) Rabbit pAb**

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