

# Lactic acid -Histone H4-K5 Rabbit pAb

Catalog No.: A18829

## Basic Information

### Observed MW

14kDa

### Calculated MW

11kDa

### Category

Primary antibody

### Applications

WB,DB,ELISA

### Cross-Reactivity

Human, Mouse, Rat, Other (Wide Range Predicted)

## Background

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. This structure consists of approximately 146 bp of DNA wrapped around a nucleosome, an octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures. This gene is intronless and encodes a replication-dependent histone that is a member of the histone H4 family. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element. This gene is found in a histone cluster on chromosome 1. This gene is one of four histone genes in the cluster that are duplicated; this record represents the centromeric copy.

## Recommended Dilutions

**WB** 1:500 - 1:2000

**DB** 1:500 - 1:4000

**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

## Immunogen Information

### Gene ID

8359

### Swiss Prot

P62805

### Immunogen

A synthetic lactylated peptide around K5 of human Histone H4 (NP\_003539.1).

### Synonyms

H4; H4/n; H4C1; H4C2; H4C3; H4C4; H4C5; H4C6; H4C8; H4C9; H4F2; H4FN; FO108; H4-16; H4C11; H4C12; H4C13; H4C15; H4C16; HIST2H4; HIST2H4A; Lactic acid -Histone H4-K5

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

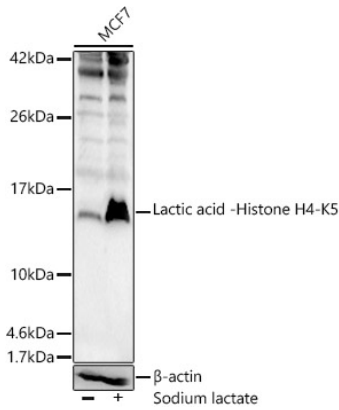
Affinity purification

### Storage

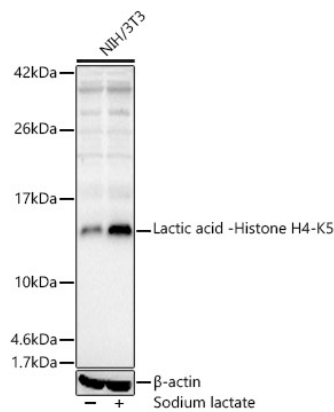
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300,50% glycerol,pH7.3.

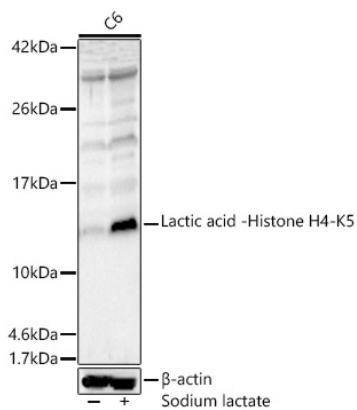
## Validation Data



Western blot analysis of lysates from MCF7 cells, using Lactic acid -Histone H4-K5 Rabbit pAb (A18829) at 1:1000 dilution. MCF7 cells were treated by Sodium lactate(100mM) for 24h.  
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Enhanced Kit (RM00021).  
Exposure time: 60s.



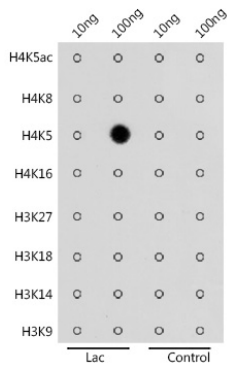
Western blot analysis of lysates from NIH/3T3 cells, using Lactic acid -Histone H4-K5 Rabbit pAb (A18829) at 1:1000 dilution. NIH/3T3 cells were treated by Sodium lactate(100mM) for 24h.  
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Enhanced Kit (RM00021).  
Exposure time: 60s.



Western blot analysis of lysates from C6 cells, using Lactic acid -Histone H4-K5 Rabbit pAb (A18829) at 1:1000 dilution. C6 cells were treated by Sodium lactate(100mM) for 24h.  
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Enhanced Kit (RM00021).  
Exposure time: 60s.

## Validation Data

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Dot-blot analysis of all sorts of peptides using Lactic acid -Histone H4-K5 antibody (A18829) at 1:4000 dilution.