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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

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

Product Information

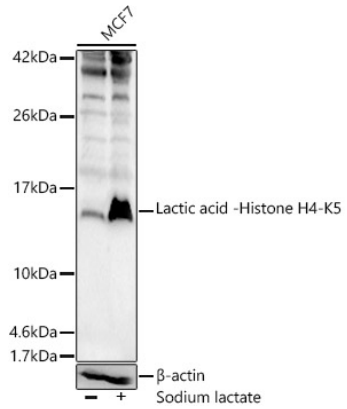
Source
Rabbit

Isotype
IgG

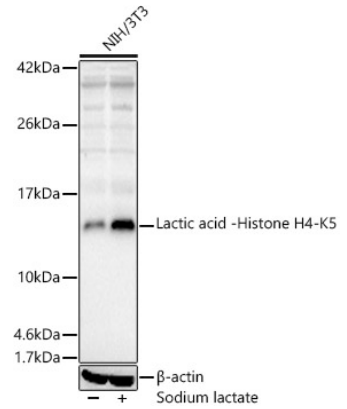
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.01% thimerosal,50% glycerol,pH7.3.

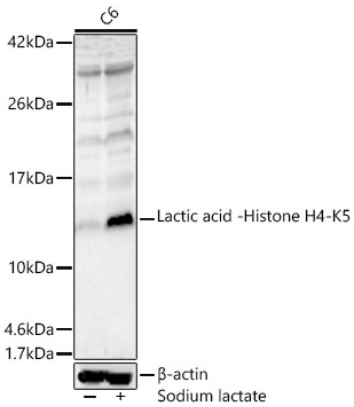
Validation Data



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.

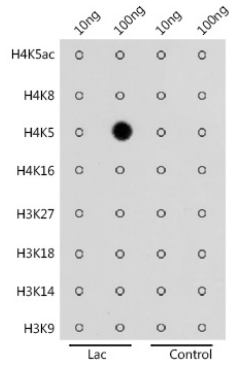


Western blot analysis of lysates from NIH/3T3 cells, using Lactic acid -Histone H4-K5 Rabbit pAb (A18829) at 1:1000 dilution. NIH/3T3 cells were treated by Sodium lactate(100mM) for 24h.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg 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



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