Lactic acid-Histone H3-K18 Rabbit pAb

Catalog NO.: A18807SP 3 Publications

Basic Information

Observed MW
17 kDa

Calculated MW
15 kDa

Category
Other Modified Antibodies

Applications
WB, IP, DB, ELISA

Cross-Reactivity
Human, Mouse, Rat, Other (Wide Range Predicted)

Conjugation
Unconjugated

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 H3 family. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element. This gene is found in the large histone gene cluster on chromosome 6p22-p21.3.

Recommended Dilutions

WB 1:500 - 1:5000

IP
0.5 μg - 4 μg antibody for 400 μg - 600 μg extracts of whole cells

DB 1:500 - 1:4000

ELISA
Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.For high-ratio antibody dilutions (⩾1:10000)

Immunogen Information

Gene ID
8290/8350

Swiss Prot
Q16695/P68431

Immunogen
This information is considered to be commercially sensitive.

Synonyms
H3/A; H3C2; H3C3; H3C4; H3C6; H3C7; H3C8; H3FA; H3C10; H3C11; H3C12; HIST1H3A; Lactic acid-Histone H3-K18

Contact

Product Information

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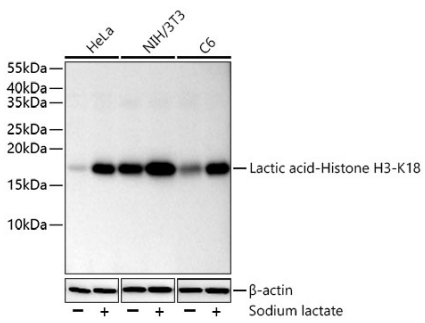
Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20°C. Avoid freeze / thaw cycles.
Buffer: PBS, pH 7.3, containing 50% glycerol. Preserved with Proclin300 or sodium azide. May contain 0.05% BSA as specified on the Certificate of Analysis.

Validation Data



Western blot analysis of various lysates using Lactic acid-Histone H3-K18 Rabbit pAb (A18807SP) at 1:1000 dilution incubated overnight at 4°C. HeLa cells were treated with Sodium lactate (100uM) at 37°C for 24 hours, NIH/3T3 cells were treated with Sodium lactate (100nM) at 37°C for 24 hours, C6 cells were treated with Sodium lactate (100nM) at 37°C for 24 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 60 s.

For research use only. Not for therapeutic or diagnostic purposes.

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