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Phospho-Histone H3-S10 Rabbit mAb

Catalog No.: AP1586 Recombinant

Basic Information

Observed MW
17 kDa

Calculated MW
15 kDa

Category
Primary antibody

Applications
WB,IHC-P,IP,DB,ChIP,ELISA

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

CloneNo number
ARC74880

Background

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone 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 located separately from the other H3 genes that are in the histone gene cluster on chromosome 6p22-p21.3.

Recommended Dilutions

WB	1:5000 - 1:20000
IHC-P	1:500 - 1:2000
IP	0.5μg-4μg antibody for 200μg-400μg extracts of whole cells
DB	1:2000 - 1:5000
ChIP	1 μg antibody for 10 μg - 15 μg of Chromatin
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)，a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID
8290/8350

Swiss Prot
Q16695/P68431

Immunogen
Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms
H3/A; H3C2; H3C3; H3C4; H3C6; H3C7; H3C8; H3FA; H3C10; H3C11; H3C12; HIST1H3A; H3t; H3.4; H3/g; H3FT; H3C16; HIST3H3

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3.

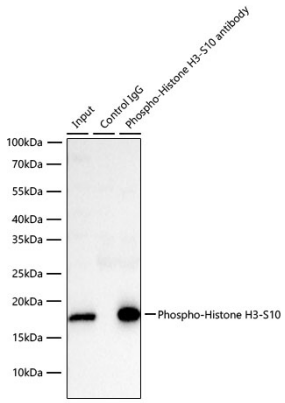
Contact

400-999-6126

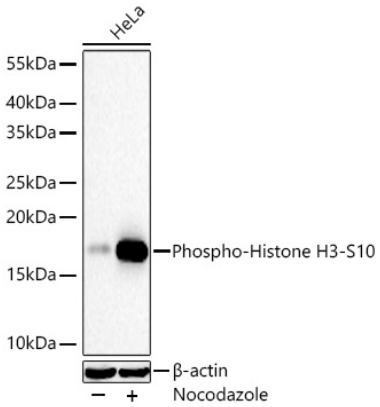
cn.market@abclonal.com.cn

www.abclonal.com.cn

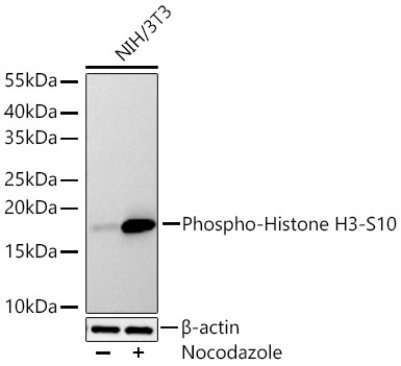
Validation Data



Immunoprecipitation of Phospho-Histone H3-S10 from 300 µg extracts of HeLa cells was performed using 2 µg of Phospho-Histone H3-S10 Rabbit mAb (AP1586). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1X Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using Phospho-Histone H3-S10 Rabbit mAb (AP1586) at a dilution of 1:10000.

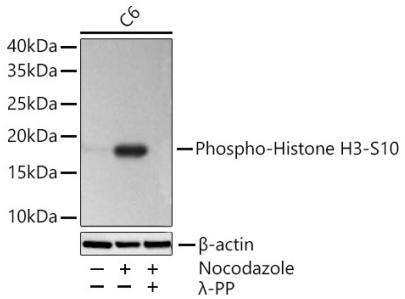


Western blot analysis of lysates from HeLa cells using Phospho-Histone H3-S10 Rabbit mAb (AP1586) at 1:6000 dilution incubated overnight at 4℃. HeLa cells were treated with Nocodazole (100 ng/mL) at 37℃ for 17 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 20 s.

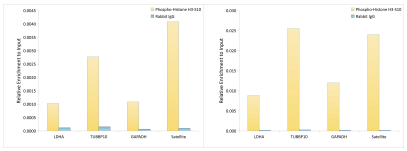


Western blot analysis of lysates from NIH/3T3 cells using Phospho-Histone H3-S10 Rabbit mAb (AP1586) at 1:6000 dilution incubated overnight at 4℃. NIH/3T3 cells were treated with Nocodazole (100 ng/mL) at 37℃ for 17 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 30 s.

Validation Data

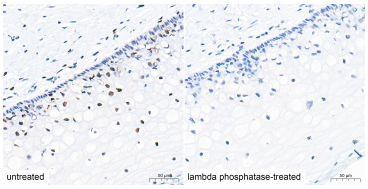


Western blot analysis of lysates from C6 cells using Phospho-Histone H3-S10 Rabbit mAb (AP1586) at 1:6000 dilution incubated overnight at 4℃. C6 cells were treated with Nocodazole (100 ng/mL) at 37℃ for 17 hours, or treated with Nocodazole (100 ng/mL) at 37℃ for 17 hours and λ-PP (2 U/μL) at 37℃ for 1 hour.
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: 10 s.

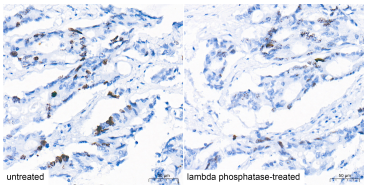


Chromatin immunoprecipitation was performed with 15 μg of cross-linked chromatin from HeLa cells(left) and HeLa cells treated with Nocodazole(100 ng/mL,17 h)(right), using 1 μg of Phospho-Histone H3-S10 Rabbit mAb (AP1586) and Rabbit IgG isotype control (AC042). The enrichment of immunoprecipitated DNA at different genomic loci was examined by quantitative PCR. The histogram compares the ratio of the immunoprecipitated DNA to the input at given loci.

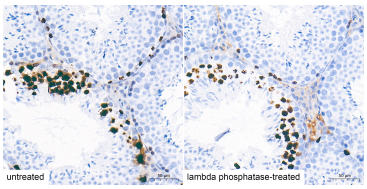
Dot-blot analysis of all sorts of peptides using Phospho-Histone H3-S10 Rabbit mAb (AP1586) at 1:5000 dilution incubated overnight at 4℃.



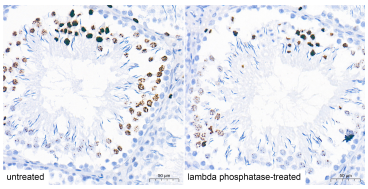
Immunohistochemistry analysis of paraffin-embedded Human cervix tissue, untreated (left) and lambda phosphatase-treated (right), using Phospho-Histone H3-S10 Rabbit mAb (AP1586) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue, untreated (left) and lambda phosphatase-treated (right), using Phospho-Histone H3-S10 Rabbit mAb (AP1586) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse testis tissue, untreated (left) and lambda phosphatase-treated (right), using Phospho-Histone H3-S10 Rabbit mAb (AP1586) at a dilution of 1:500 (40x



Immunohistochemistry analysis of paraffin-embedded Rat testis tissue, untreated (left) and lambda phosphatase-treated (right), using Phospho-Histone H3-S10 Rabbit mAb (AP1586) at a dilution of 1:500 (40x lens).

Validation Data

lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.