Phospho-Histone H3-S10 Rabbit mAb

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Catalog No.: AP1586 Recombinant

Basic Information

Observed MW

17 kDa

Calculated MW

15 kDa

Category

Primary antibody

Applications

WB,IHC-P,DB,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

DB 1:2000 - 1:5000

ELISA Recommended starting

concentration is 1 µg/mL.

Please optimize the concentration based on your specific assay requirements. For highratio antibody dilutions (≥1:10000)□a sequential dilution method is strongly recommended to ensure measurement

accuracy.

Immunogen Information

Gene ID Swiss Prot8290/8350
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

SourceIsotypePurificationRabbitIgGAffinity purification

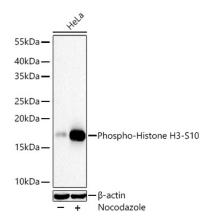
Storage

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

Buffer: PBS with 0.09% Sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

Contact

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Western blot analysis of lysates from HeLa cells using Phospho-Histone H3-S10 Rabbit mAb (AP1586) at 1:6000 dilution incubated overnight at 4° C. HeLa cells were treated with Nocodazole (100 ng/mL) at 37° C for 17 hours.

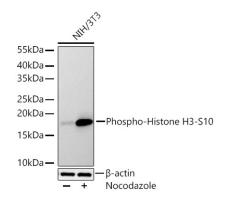
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

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° C. NIH/3T3 cells were treated with Nocodazole (100 ng/mL) at 37° C for 17 hours.

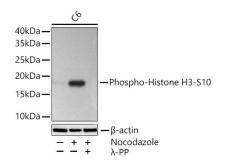
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 30 µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 30 s.



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

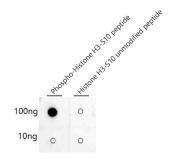
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

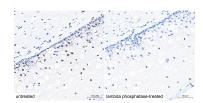
Lysates/proteins: 30 µg per lane.

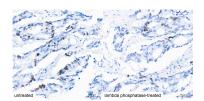
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 10 s.



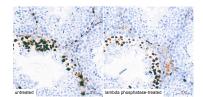


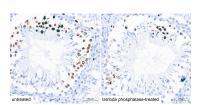


Dot-blot analysis of all sorts of peptides using Phospho-Histone H3-S10 Rabbit mAb (AP1586) at 1:5000 dilution incubated overnight at $4\,^\circ\!\text{C}.$

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

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