

Phospho-Histone H3-S10 Rabbit pAb

Catalog No.: AP0840SP

10 Publications

Basic Information

Observed MW

17 kDa

Calculated MW

16 kDa

Category

Primary antibody

Applications

WB, IF/ICC, IHC-P, DB, ChIP, 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. 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 1:2000 - 1:6000**IF/ICC** 1:2000 - 1:8000**IHC-P** 1:1000 - 1:4000**DB** 1:1000 - 1:2000**ChIP** 3 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 ($\geq 1:10000$) a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID

8290/8350

Swiss Prot

Q16695/P68431

Immunogen

This information is considered to be commercially sensitive.

Synonyms

H3t; H3.4; H3/g; H3FT; H3C16; HIST3H3; Phospho-Histone H3-S10

Product Information

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.

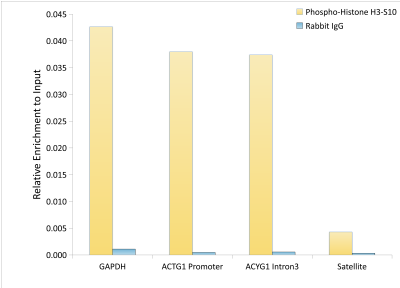
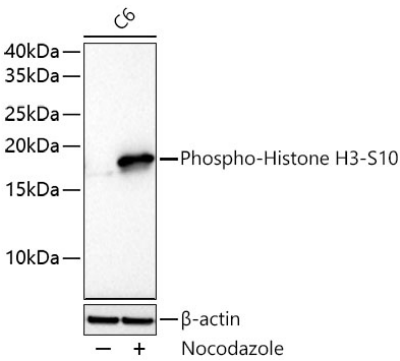
Contact

☎ | 400-999-6126

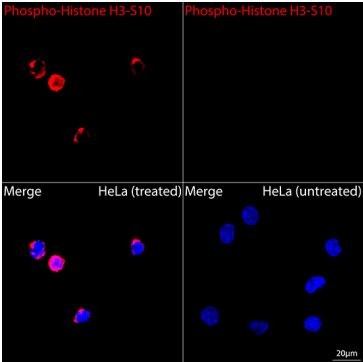
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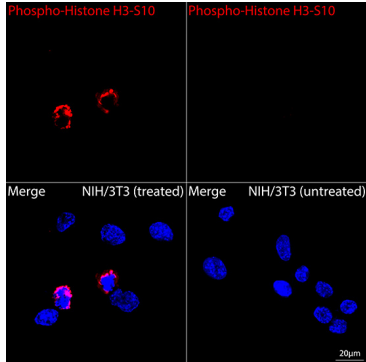
Validation Data



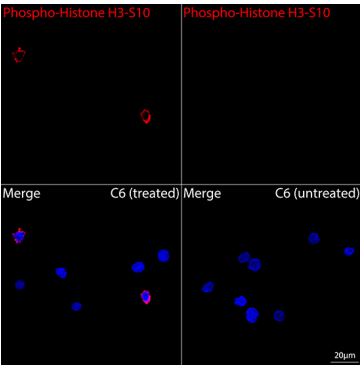
Dot-blot analysis of all sorts of peptides using Phospho-Histone H3-S10 Rabbit pAb (AP0840SP) at 1:1000 dilution.



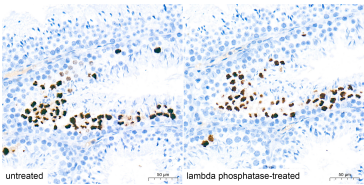
Confocal imaging of HeLa cells (treated with nocodazole) and HeLa cells (untreated) using Phospho-Histone H3-S10 Rabbit pAb (AP0840SP, dilution 1:2000) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



Confocal imaging of NIH/3T3 cells (treated with nocodazole) and NIH/3T3 cells (untreated) using Phospho-Histone H3-S10 Rabbit pAb (AP0840SP, dilution 1:2000) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



Confocal imaging of C6 cells (treated with nocodazole) and C6 cells (untreated) using Phospho-Histone H3-S10 Rabbit pAb (AP0840SP, dilution 1:2000) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



Immunohistochemistry analysis of paraffin-embedded Mouse testis tissue, untreated (left) and lambda phosphatase-treated (right), tissue using Phospho-Histone H3-S10 Rabbit pAb (AP0840SP) at a dilution of 1:3000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.