AP0002

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# Phospho-Histone H3-S10 Rabbit mAb

**Catalog No.: AP0002** Recombinant 1 Publications

## Basic Information

**Observed MW**
15kDa

**Calculated MW**
15kDa

**Category**
SMab Recombinant Monoclonal Antibody

**Applications**
WB,IHC-P,IF/ICC,ELISA

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

**CloneNo number**
ARC0003

## 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 - 1:1000 |
| **IHC-P** | 1:50 - 1:200 |
| **IF/ICC** | 1:50 - 1:200 |

## Immunogen Information

**Gene ID**
8290/8350

**Swiss Prot**
Q16695/P68431

**Immunogen**
A synthetic phosphorylated peptide around S10 of human Histone H3 (P68431).

**Synonyms**
H3/A; H3C2; H3C3; H3C4; H3C6; H3C7; H3C8; H3FA; H3C10; H3C11; H3C12; HIST1H3A; Phospho-Histone H3-S10

## Contact

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## Product Information

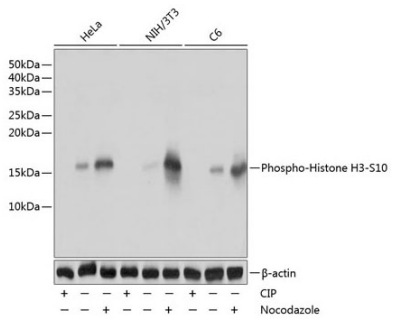
**Source**
Rabbit

**Isotype**
IgG

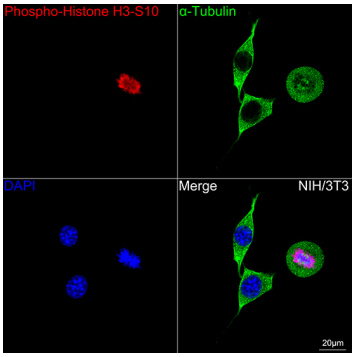
**Purification**
Affinity purification

**Storage**
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.02% sodium azide,0.05% BSA,50% glycerol,pH7.3.

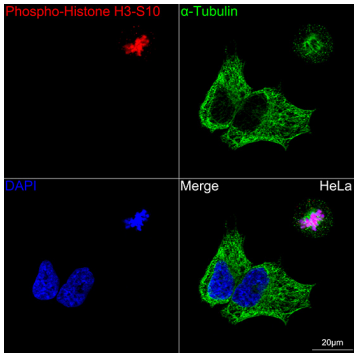
## Validation Data



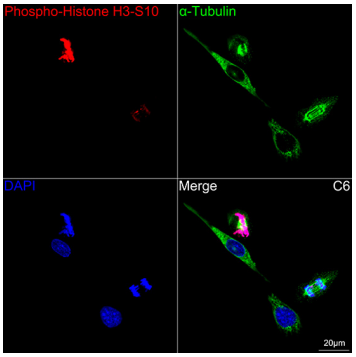

Western blot analysis of lysates from HeLa,NIH/3T3,C6 cells using Phospho-Histone H3-S10 Rabbit mAb (AP0002) at 1:1000 dilution. HeLa,NIH/3T3 and C6 cells were treated by nocodazole (50 ng/mL) at 37℃ for 20 hours or treated by CIP(20uL/400ul) at 37℃ for 1 hour.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 1s.



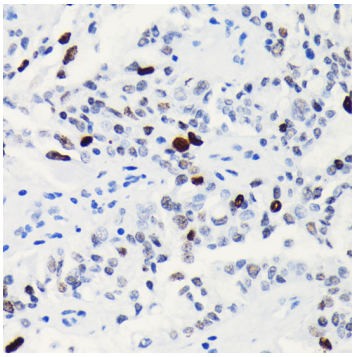

Confocal imaging of NIH/3T3 cells using Phospho-Histone H3-S10 Rabbit mAb (AP0002, dilution 1:100) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



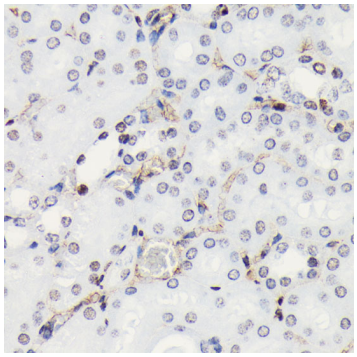

Confocal imaging of HeLa cells using Phospho-Histone H3-S10 Rabbit mAb (AP0002, dilution 1:100) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.




Confocal imaging of C6 cells using Phospho-Histone H3-S10 Rabbit mAb (AP0002, dilution 1:100) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



Immunohistochemistry analysis of Phospho-Histone H3-S10 in paraffin-embedded human oophoroma using Phospho-Histone H3-S10 Rabbit mAb (AP0002) at dilution of 1:100 (40x lens).Perform high pressure antigen retrieval with 50 mM Tris/EDTA buffer pH 8.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of Phospho-Histone H3-S10 in paraffin-embedded mouse kidney using Phospho-Histone H3-S10 Rabbit mAb (AP0002) at dilution of 1:100 (40x lens).Perform high pressure antigen retrieval with 50 mM Tris/EDTA buffer pH 8.0 before commencing with IHC staining protocol.