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Phospho-Histone H3-S28 Rabbit mAb

Catalog No.: AP1431 Recombinant 1 Publications

Basic Information

Observed MW
17 kDa//17 kDa

Calculated MW
15 kDa

Category
Primary antibody

Applications
WB,IP,ELISA

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

CloneNo number
ARC60274

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	1:1000 - 1:6000
IP	2μg-6μg antibody for 400μg-600μg extracts of whole cells
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

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; Phospho-Histone H3-S28

Contact

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Product Information

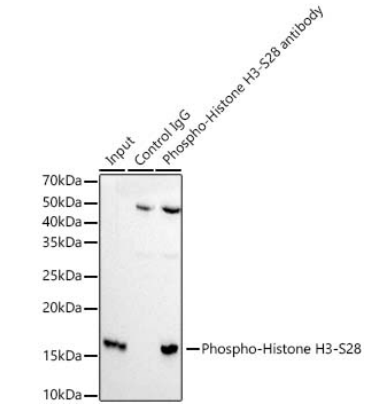
Source
Rabbit

Isotype
IgG

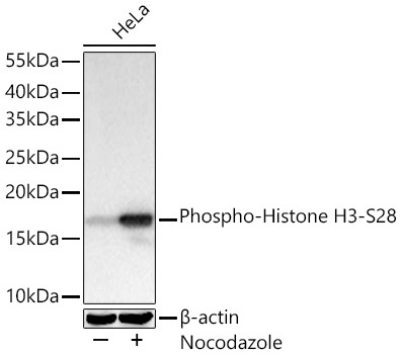
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

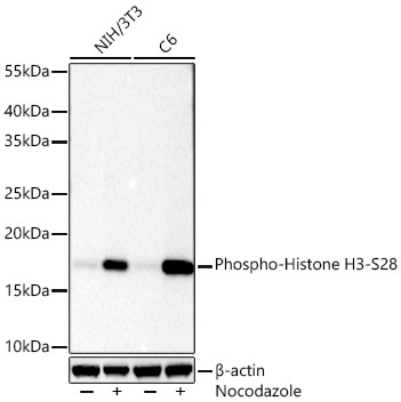
Validation Data



Immunoprecipitation analysis of 600 µg extracts of HeLa cells treated with Calyculin A (100nM, 30min) using 5 µg Phospho-Histone H3-S28 Rabbit mAb (AP1431). Western blot was performed from the immunoprecipitate using Phospho-Histone H3-S28 Rabbit mAb (AP1431) at a dilition of 1:2000.



Western blot analysis of lysates from HeLa cells using Phospho-Histone H3-S28 Rabbit mAb (AP1431) at 1:6000 dilution incubated at room temperature for 1.5 hours. 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: 1 s.



Western blot analysis of various lysates using Phospho-Histone H3-S28 Rabbit mAb (AP1431) at 1:6000 dilution incubated overnight at 4℃. NIH/3T3 and C6 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.