

Phospho-Histone H3-T11 Rabbit mAb

Catalog No.: AP1472 **Recombinant**

Basic Information

Observed MW

17kDa

Calculated MW

15kDa

Category

Primary antibody

Applications

WB, IHC-P, IF/ICC, ELISA, ChIP

Cross-Reactivity

Human, Mouse, Rat

CloneNo number

ARC61334

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 1:2000 - 1:6000

IHC-P 1:100-1:500

IF/ICC 1:100 - 1:500

ELISA Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

ChIP 5µg antibody for 5µg-10µg of Chromatin

Contact

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Immunogen Information

Gene ID

8290/8350

Swiss Prot

Q16695/P68431

Immunogen

A synthetic phosphorylated peptide around T11 of human Histone H3 (NP_003520.1).

Synonyms

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

Product Information

Source

Rabbit

Isotype

IgG

Purification

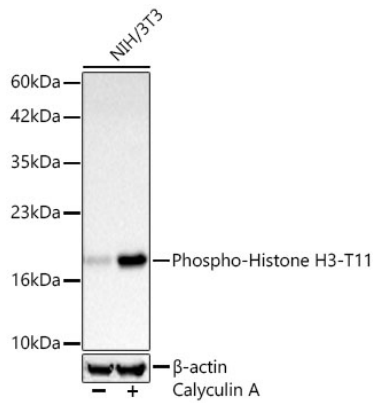
Affinity purification

Storage

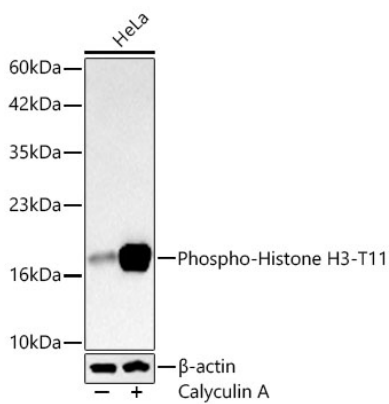
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300, 0.05% BSA, 50% glycerol, pH7.3.

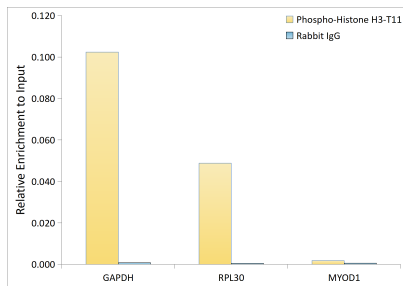
Validation Data



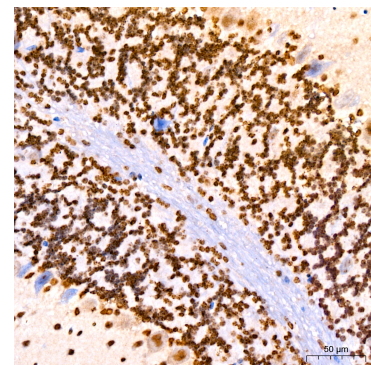
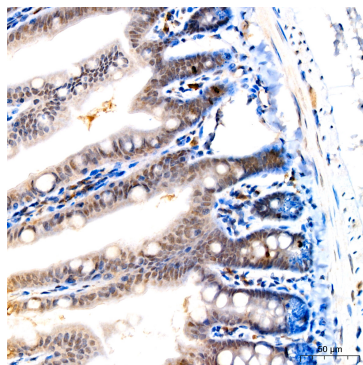
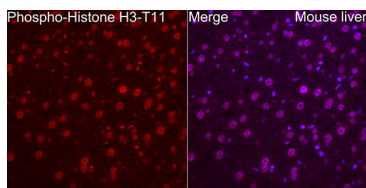
Western blot analysis of lysates from NIH/3T3 cells using Phospho-Histone H3-T11 Rabbit mAb (AP1472) at 1:5000 dilution. NIH/3T3 cells were treated by Calyculin A (100 nM) at 37°C for 30 minutes after serum-starvation overnight.
 Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
 Lysates/proteins: 25 µg per lane.
 Blocking buffer: 3% nonfat dry milk in TBST.
 Detection: ECL Basic Kit (RM00020).
 Exposure time: 30s.



Western blot analysis of lysates from HeLa cells using Phospho-Histone H3-T11 Rabbit mAb (AP1472) at 1:5000 dilution. HeLa cells were treated by Calyculin A (100 nM) at 37°C for 30 minutes after serum-starvation overnight.
 Secondary antibody: HRP-conjugated 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: 30s.



Chromatin immunoprecipitation was performed with cross-linked chromatin from HeLa cells (Calyculin A, 100 nM, 30 minutes), using Phospho-Histone H3-T11 Rabbit mAb (AP1472) and rabbit IgG(AC042). The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram compares the ratio of the immunoprecipitated DNA versus the input.



Validation Data

Immunofluorescence analysis of paraffin-embedded Mouse liver tissue using Phospho-Histone H3-T11 Rabbit mAb(AP1472) at a dilution of 1:300 (40x lens). Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining. Perform high pressure antigen retrieval with 0.01 M citrate buffer (pH 6.0) prior to IF staining.

Immunohistochemistry analysis of paraffin-embedded Mouse colon tissue using Phospho-Histone H3-T11 Rabbit mAb (AP1472) at a dilution of 1:300 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.

Immunohistochemistry analysis of paraffin-embedded Rat brain tissue using Phospho-Histone H3-T11 Rabbit mAb (AP1472) at a dilution of 1:300 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.