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# 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 |

## 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-S10

## 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.

## Contact


400-999-6126

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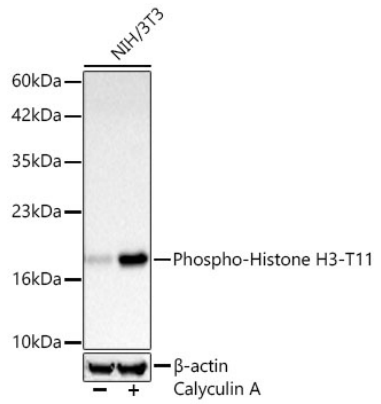
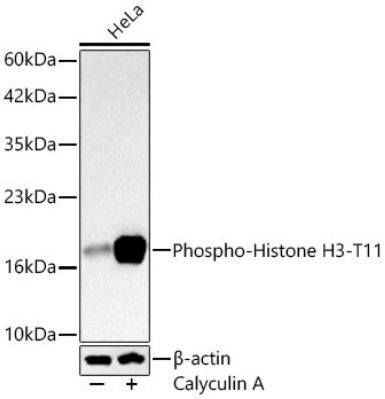
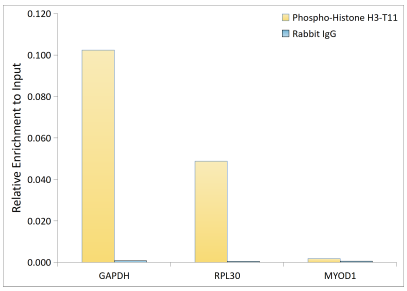
## Validation Data



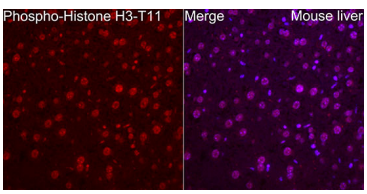

Western blot analysis of lysates from NIH/3T3 cells using Phospho-Histone H3-T11 Rabbit mAb (AP1472) at 1:5000 dilution. NIH/3T3 cells were treated with Calyculin A (100 nM) at 37℃ for 30 minutes after serum-starvation overnight.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 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.

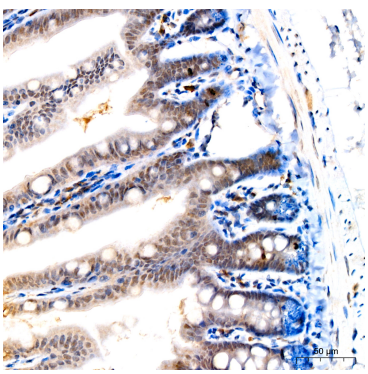


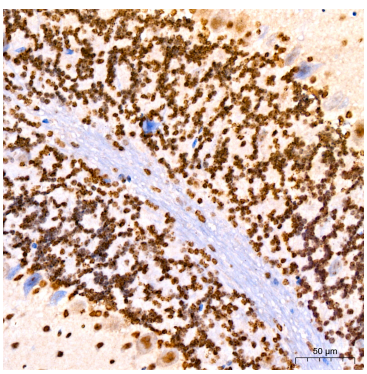

Western blot analysis of lysates from HeLa cells using Phospho-Histone H3-T11 Rabbit mAb (AP1472) at 1:5000 dilution. HeLa cells were treated with Calyculin A (100 nM) at 37℃ for 30 minutes after serum-starvation overnight.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 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.