

## Acetyl-Histone H3-K4 Antibody

CAB16078

### Description

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This Acetyl-Histone H3-K4 Antibody is supplied as a kit for advanced applications. The kit includes Bradford Reagent to quantify total protein concentration for accurate sample normalization (Optional).

### Product Information

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<b>SKU:</b>	CAB16078
<b>Contents:</b>	20 µL, 100 µL Bradford Reagent: 1 vial (2ml)
<b>Category:</b>	Polyclonal Antibody
<b>Synonyms:</b>	H3t, H3.4, H3/g, H3FT, H3C16, HIST3H3, Acetyl-Histone H3-K4
<b>Clone:</b>	-
<b>Applications:</b>	WB IF/ICC ChIP ELISA
<b>Conjugation:</b>	Unconjugated
<b>Reactivity:</b>	Human, Mouse, Rat, Other (Wide Range Predicted)

### Antibody Data

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<b>Gene ID:</b>	8290 8350
<b>Uniprot:</b>	AB_2763519
<b>Host Species:</b>	Rabbit
<b>Purification:</b>	Affinity purification
<b>Observed MW:</b>	17 kDa
<b>Calculated MW:</b>	15 kDa

## Preparation & Storage

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

Store Bradford Reagent at Room Temperature for 1 Year.

**Positive Sample:** C6 treated with TSA , NIH/3T3 treated with TSA , HeLa treated with TSA

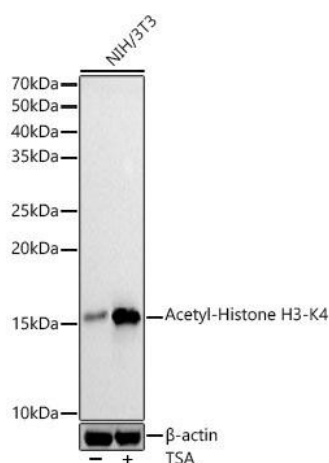
**Recommended Dilutions:**

<b>WB</b>	1:500 - 1:1000
<b>IF/ICC</b>	1:50 - 1:100
<b>ELISA</b>	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

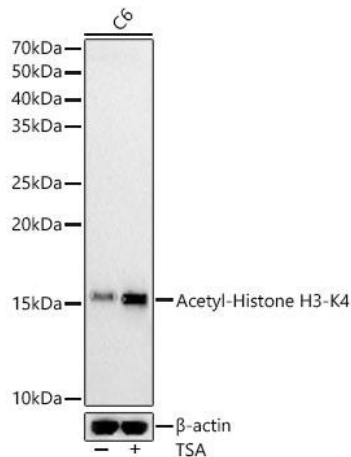
**Protein Quantification (Optional):**

To quantify total protein levels, use the Bradford Reagent included in this kit. Visit <https://www.assaygenie.com/bradford-protein-assay-protocol/> to view the full protocol

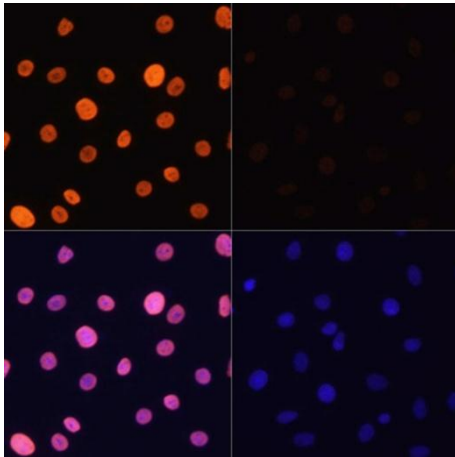
## Validation Data



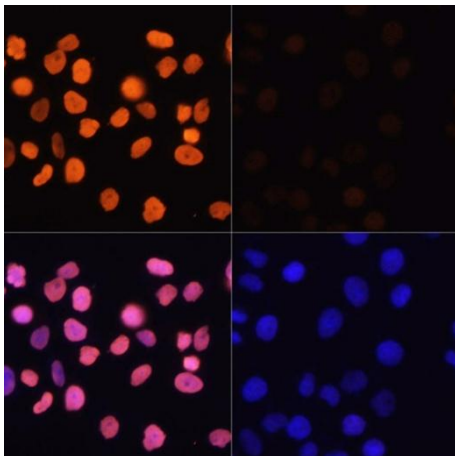
Western blot analysis of lysates from NIH/3T3 cells using Acetyl-Histone - Rabbit pAb (CAB16078) at 1:400 dilution. NIH/3T3 cells were treated with TSA (1 µM) at 37°C for 18 hours. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (AbGn00020). Exposure time: 60s.



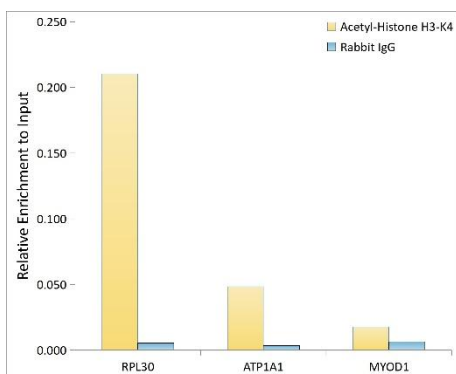
Western blot analysis of lysates from cells using Acetyl-Histone - Rabbit pAb (CAB16078) at 1:400 dilution. cells were treated with TSA (1  $\mu$ M) at 37°C for 18 hours. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25  $\mu$ g per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (AbGn00020). Exposure time: 60s.



Immunofluorescence analysis of cells using Acetyl-Histone - Rabbit pAb (CAB16078) at dilution of 1:100. cells were treated with TSA (1  $\mu$ M) at 37°C for 18 hours. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of HeLa cells using Acetyl-Histone - Rabbit pAb (CAB16078) at dilution of 1:100. HeLa cells were treated with TSA (1  $\mu$ M) at 37°C for 18 hours. Blue: DAPI for nuclear staining.



Chromatin immunoprecipitation analysis of extracts of HeLa cells, using Acetyl-Histone - antibody (CAB16078) and rabbit IgG. The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.