Datasheet for ABIN5773855

# anti-HIST1H3A antibody (acLys9, acLys14)

Go to Product page

## 6 Images

## Overview

| | |
|---|---|
| Quantity: | 50 µg |
| Target: | HIST1H3A |
| Binding Specificity: | acLys9, acLys14 |
| Reactivity: | Human, Mouse, Zebrafish (Danio rerio), Arabidopsis, Rainbow Trout, Aspergillus nidulans |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This HIST1H3A antibody is un-conjugated |
| Application: | ELISA, Western Blotting (WB), Immunofluorescence (IF), Chromatin Immunoprecipitation (ChIP), Dot Blot (DB), ChIP DNA-Sequencing (ChIP-seq) |

## Product Details

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|---|---|
| Purpose: | Rabbit polyclonal antibody raised against synthetic peptide of Histone H3 (K9/14ac). |
| Immunogen: | A synthetic peptide (conjugated with KLH) corresponding to Histone H3, acetylated lysines at 9 and 14. |
| Cross-Reactivity: | Arabidopsis, Aspergillus nidulans, Human, Mouse, Rainbow Trout, Zebrafish (Danio rerio) |

## Target Details

| | |
|---|---|
| Target: | HIST1H3A |
| Alternative Name: | HIST1H3A (HIST1H3A Products) |
| Background: | Full Gene Name: histone cluster 1, H3a<br>Synonyms: H3/A,H3FA |

## Target Details

| | |
|---|---|
| Gene ID: | 8350 |

## Application Details

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|---|---|
| Application Notes: | ELISA (1:100)<br>Western Blot (1:1000)<br>ChIP (1-2 µg/CHIP)<br>Dot Blot (1:20000)<br>Immunofluorescence (1:500)<br>The optimal working dilution should be determined by the end user. |
| Restrictions: | For Research Use only |

## Handling

| | |
|---|---|
| Format: | Liquid |
| Buffer: | In PBS (0.05 % sodium azide, 0.05 % proclin 300). |
| Preservative: | ProClin, Sodium azide |
| Precaution of Use: | This product contains ProClin and Sodium azide: POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only. |
| Storage: | -20 °C,-80 °C |
| Storage Comment: | Store at -20°C. For long term storage store at -80°C.<br>Aliquot to avoid repeated freezing and thawing. |

## Images

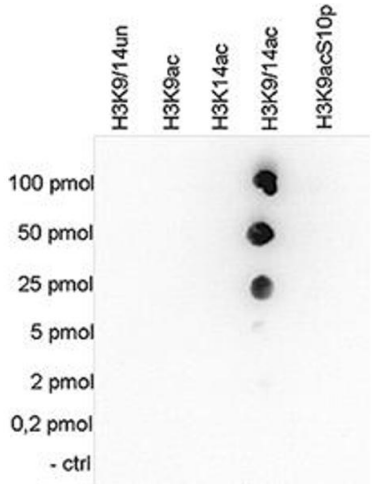



**Image 1.** Cross reactivity tests using the Histone H3 (K9/14ac) antibody. Dot Blot analysis was performed with peptides containing other histone modifications and the unmodified H3K9. One hundred to 0.2 pmol of the respective peptides were spotted on a membrane. The antibody was used at a dilution of 1:20000. The figure shows a high specificity of the antibody for the modification of interest.

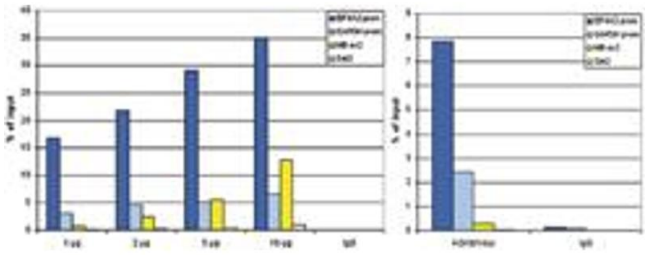
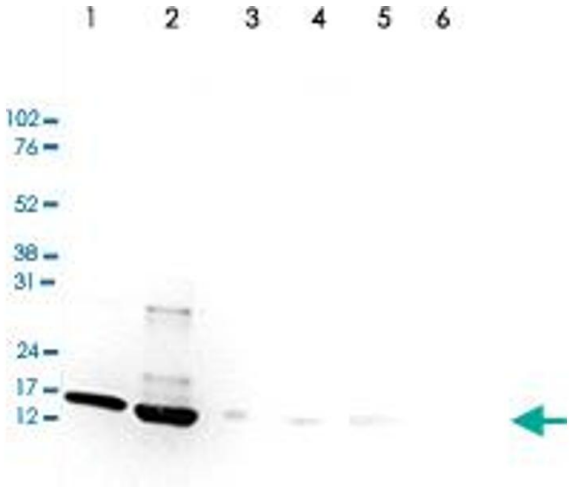


**Image 2.** ChIP assays were performed using human HeLa cells. A titration consisting of 1, 2, 5 and 10 ug of antibody per ChIP experiment was analyzed. IgG (2 ug/IP) was used as a negative IP control. Quantitative PCR was performed with primers specific for the promoter of the active genes GAPDH and EIF4A2, used as positive controls, and for the coding region of the inactive MB gene and the Sat2 satellite repeat, used as negative controls. The figure shows the recovery, expressed as a % of input (the relative amount of immunoprecipitated DNA compared to input DNA after qPCR analysis).




## Western Blotting

**Image 3.** Western Blot (Cell lysate) analysis of (1) 25 ug whole cell extracts of HeLa cells, (2) 15 ug histone extracts of HeLa cells, (3) 1 ug of recombinant histone H2A, (4) 1 ug of recombinant histone H2B, (5) 1 ug of recombinant histone H3, and (6) 1 ug of recombinant histone H4.

Please check the product details page for more images. Overall 6 images are available for ABIN5773855.