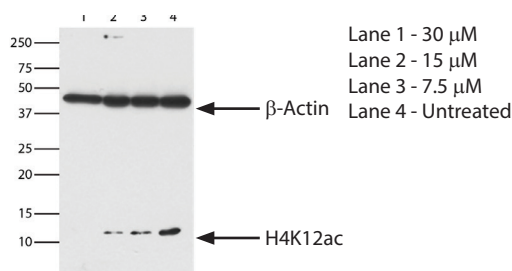


## Antibodies for Histone Research

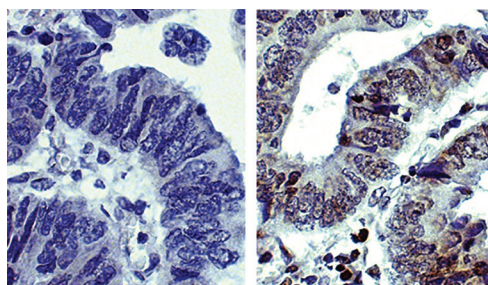
Nucleosomes are the fundamental repeating subunit of chromatin and are the basic units of DNA packaging in eukaryotes. Nucleosomes consist of 147 base pairs of DNA wrapped around a histone octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). Histones consist of a globular domain and a more flexible amino terminus (histone "tail") which may undergo various post-translational modifications, including acetylation, phosphorylation, and methylation. These modifications have a direct effect on chromatin structure and chromatin protein interactions, and are involved in DNA repair, chromosome condensation, and gene regulation.

### Mouse Anti-Acetyl-Histone H4 (Lys12) (H4K12ac)

Cat. No.	Description	Clone	Size
13400-01	Mouse Anti-Acetyl-Histone H4 (Lys12)-UNLB	SB156b	0.1 mg

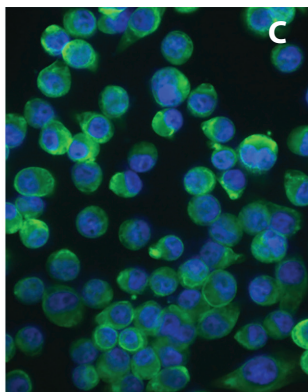
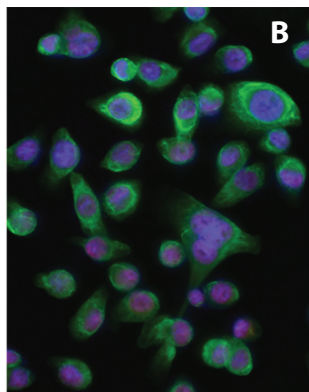
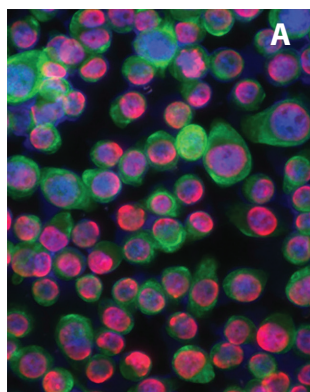


**Western Blotting** - H4K12ac expression on Jurkat cell lysate (20 µg/lane) treated with the acetyltransferase inhibitor, curcumin. Goat Anti-Mouse IgG, Human ads-HRP (SB Cat. No. 1030-05) was used as a secondary at 1:6K.



Left - Antibody blocked with immunizing peptide  
Right - Without immunizing peptide block

**Immunohistochemistry (Paraffin Sections)** - Deparaffinized and antigen-retrieved gastric cancer tissue was incubated with Mouse Anti-H4K12ac-UNLB at 2 µg/mL followed by Goat Anti-Mouse IgG(H+L), Human ads-HRP (SB Cat. No. 1031-05). Tissue was developed with DAB and counterstained with hematoxylin.

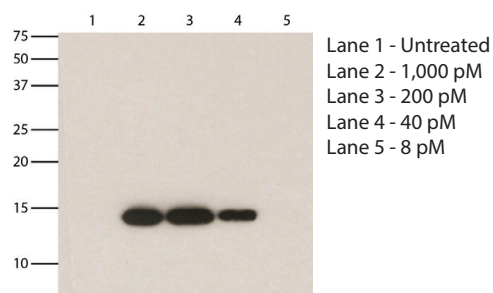


A - Antibody not blocked with H4K12ac peptide  
B - Antibody blocked with 5 µg/mL H4K-12ac peptide  
C - Isotype control

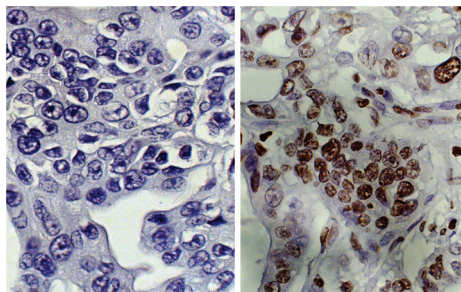
**Immunocytochemistry** - MIA PaCa-2 cells were intracellularly stained with Mouse Anti-H4K12ac-BIOT (in development) at 1 µg/mL followed by Streptavidin-CY3 (SB Cat. No. 7100-12). Cells were counterstained with Cytokeratin-FITC (green) and DAPI (blue).

## Mouse Anti-Acetyl-Histone H2A (Lys9) (H2AK9ac)

Cat. No.	Description	Clone	Size
13200-01	Mouse Anti-Acetyl-Histone H2A (Lys9)-UNLB	SB146a	0.1 mg



**Western Blotting** - Trichostatin A dose dependent expression of H2AK9ac on Jurkat cell lysate. Goat Anti-Mouse IgG, Human ads-HRP (SB Cat. No. 1030-05) was used as a secondary at 1:6K.

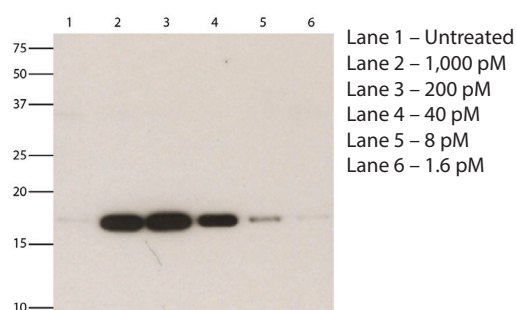


Left - Antibody blocked with immunizing peptide  
Right - Without immunizing peptide block

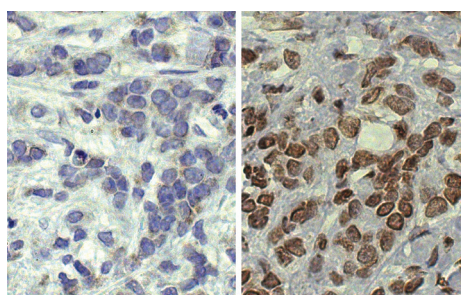
**Immunohistochemistry** - Paraffin sections of human cancer tissues were stained with Mouse Anti-H2AK9ac-UNLB. Goat Anti-Mouse IgG, Human ads-BIOT (SB Cat. No. 1030-08) was used as a secondary followed by Streptavidin-HRP (SB Cat. No. 7100-05). Sections were developed with DAB and counterstained with hematoxylin.

## Mouse Anti-Acetyl-Histone H3 (Lys18) (H3K18ac)

Cat. No.	Description	Clone	Size
13300-01	Mouse Anti-Acetyl-Histone H3 (Lys18)-UNLB	SB157a	0.1 mg



**Western Blotting** - Trichostatin A dose dependent expression of H3K18ac on Jurkat cell lysate. Goat Anti-Mouse IgG, Human ads-HRP (SB Cat. No. 1030-05) was used as a secondary at 1:6K.

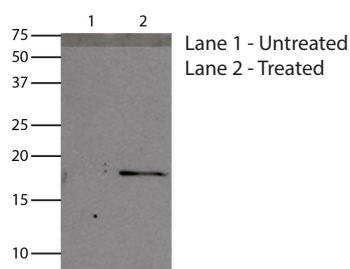


Left - Antibody blocked with immunizing peptide  
Right - Without immunizing peptide block

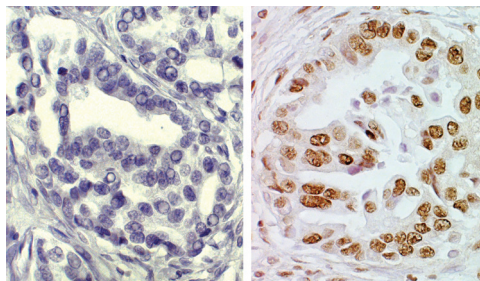
**Immunohistochemistry** - Paraffin sections of human cancer tissues were stained with Mouse Anti-H3K18ac-UNLB. Goat Anti-Mouse IgG, Human ads-BIOT (SB Cat. No. 1030-08) was used as a secondary followed by Streptavidin-HRP (SB Cat. No. 7100-05). Sections were developed with DAB and counterstained with hematoxylin.

## Mouse Anti-Acetyl-Histone H3 (Lys4) (H3K4ac)

Cat. No.	Description	Clone	Size
13600-01	Mouse Anti-Acetyl-Histone H3 (Lys4)-UNLB	SB157d	0.1 mg



**Western Blotting** - Untreated Jurkat cells lysate and Jurkat cell lysate treated with Trichostatin A were resolved by a 15% SDS-PAGE. Goat Anti-Mouse IgG, Human ads-HRP (SB Cat. No. 1030-05) was used as a secondary.

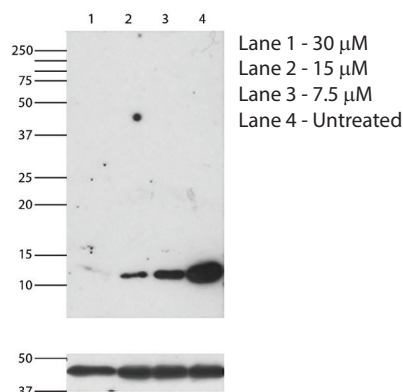


Left - Antibody blocked with immunizing peptide  
Right - Without immunizing peptide block

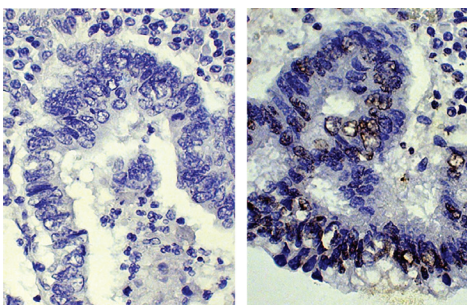
**Immunohistochemistry (Paraffin Sections)** - Human cancer tissue was stained with Mouse Anti-H3K4ac-UNLB followed by Goat Anti-Mouse IgG(H+L), Human ads-BIOT (SB Cat. No. 1031-08) then Streptavidin-HRP (SB Cat. No. 7100-05). Tissue was developed with DAB and counterstained with hematoxylin.

## Mouse Anti-Acetyl-Histone H4 (Lys8) (H4K8ac)

Cat. No.	Description	Clone	Size
13700-01	Mouse Anti-Acetyl-Histone H4 (Lys8)-UNLB	SB162a	0.1 mg



**Western Blotting** - H4K8ac expression on Jurkat cell lysate (20 μg/lane) treated with the acetyltransferase inhibitor, curcumin. Goat Anti-Mouse IgG, Human ads-HRP (SB Cat. No. 1030-05) was used as a secondary at 1:6K.



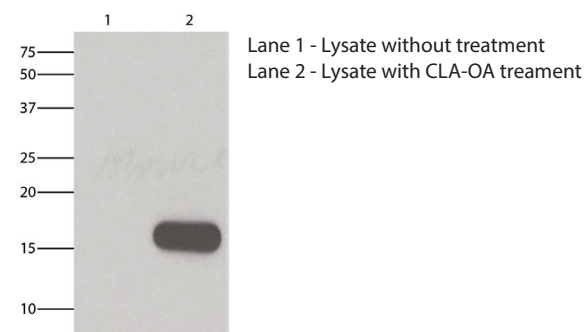
Left - Antibody blocked with immunizing peptide  
Right - Without immunizing peptide block

**Immunohistochemistry (Paraffin Sections)** - Human cancer tissue was stained with Mouse Anti-H4K8ac-UNLB followed by Goat Anti-Mouse IgG<sub>1</sub>, Human ads-HRP (SB Cat. No. 1070-05). Tissue was developed with DAB and counterstained with hematoxylin.

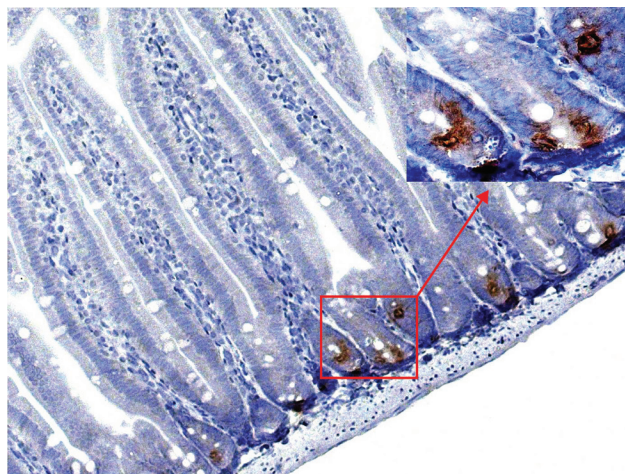


## Mouse Anti-Phospho-Histone H3 (Thr3) (H3T3P)

Cat. No.	Description	Clone	Size
13500-01	Mouse Anti-Phospho-Histone H3 (Thr3)-UNLB	SB153a	0.1 mg



**Western Blotting** - Mouse Anti-Human H3T3P-UNLB on HEP-2 cell lysate with or without CLA-OA treatment.  
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**Immunohistochemistry (Paraffin Sections)** - Sections of mouse small intestine tissue were stained with Mouse Anti-H3T3P-UNLB. Goat Anti-Mouse IgG(H+L), Human ads-BIOT (SB Cat. No. 1031-08) was used as a secondary followed by Streptavidin-HRP (SB Cat. No. 7100-05).