

# Anti-Histone H3 Antibody [6-A7-R] - Loading control

## HA601335



<b>Product Type:</b>	Recombinant Mouse monoclonal IgG1, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat
<b>Applications:</b>	WB, IHC-P, IF-Tissue
<b>Molecular Wt:</b>	Predicted band size: 15 kDa
<b>Clone number:</b>	6-A7-R

**Description:** The nucleosome, made up of DNA wound around eight core histone proteins (two each of H2A, H2B, H3, and H4), is the primary building block of chromatin. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling.

**Immunogen:** Synthetic peptide within Human Histone H3 aa 1-50 / 136.

**Positive control:** HeLa cell lysate, A549 cell lysate, NIH/3T3 cell lysate, PC-12 cell lysate, C6 cell lysate, rat testis tissue lysate, mouse skin tissue lysate, human liver tissue, mouse epididymis tissue, mouse testis tissue, rat brain tissue.

**Subcellular location:** Nucleus.

**Database links:** SwissProt: P68431 human | P84243 human | Q16695 human | Q6NXT2 human | Q71D13 human | P68433 mouse | P84228 mouse | Q6LED0 rat

**Recommended Dilutions:**

<b>WB</b>	1:5,000
<b>IHC-P</b>	1:1,000
<b>IF-Tissue</b>	1:200

**Storage Buffer:** PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

**Storage Instruction:** Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

**Purity:** Protein A affinity purified.

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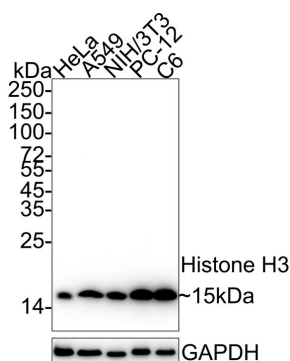
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## Images



**Fig1:** Western blot analysis of Histone H3 on different lysates with Mouse anti-Histone H3 antibody (HA601335) at 1/5,000 dilution.

Lane 1: HeLa cell lysate  
 Lane 2: A549 cell lysate  
 Lane 3: NIH/3T3 cell lysate  
 Lane 4: PC-12 cell lysate  
 Lane 5: C6 cell lysate

Lysates/proteins at 20 µg/Lane.

Predicted band size: 15 kDa  
 Observed band size: 15 kDa

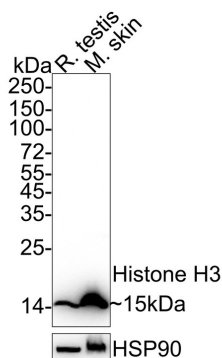
Exposure time: 14 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDm/TBST for 1 hour at room temperature. The primary antibody (HA601335) at 1/5,000 dilution was used in 5% NFDm/TBST at 4°C overnight. Anti-Mouse IgG for IP Nano-secondary antibody (NBI02H) at 1/5,000 dilution was used for 1 hour at room temperature.

**Fig2:** Western blot analysis of Histone H3 on different lysates with Mouse anti-Histone H3 antibody (HA601335) at 1/5,000 dilution.

Lane 1: Rat testis tissue lysate  
 Lane 2: Mouse skin tissue lysate



Lysates/proteins at 20 µg/Lane.

Predicted band size: 15 kDa  
 Observed band size: 15 kDa

Exposure time: 15 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDm/TBST for 1 hour at room temperature. The primary antibody (HA601335) at 1/5,000 dilution was used in 5% NFDm/TBST at 4°C overnight. Anti-Mouse IgG for IP Nano-secondary antibody (NBI02H) at 1/5,000 dilution was used for 1 hour at room temperature.

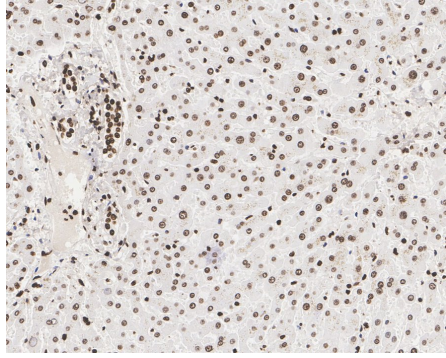
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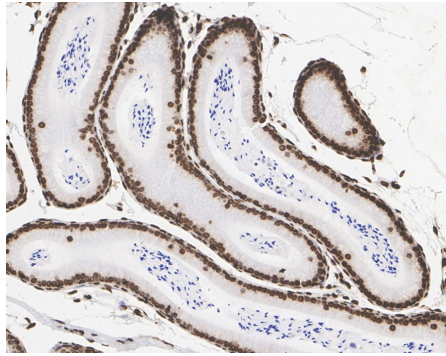
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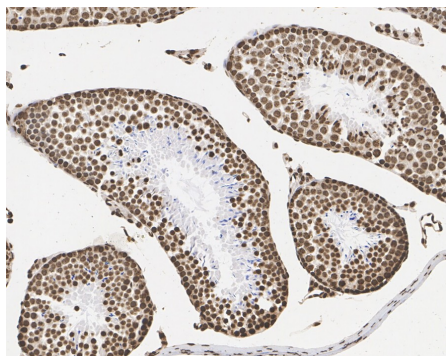
**Fig3:** Immunohistochemical analysis of paraffin-embedded human liver tissue with Mouse anti-Histone H3 antibody (HA601335) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (HA601335) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



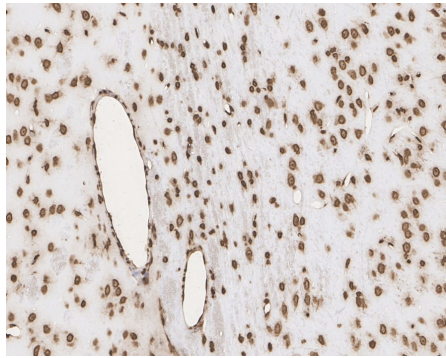
**Fig4:** Immunohistochemical analysis of paraffin-embedded mouse epididymis tissue with Mouse anti-Histone H3 antibody (HA601335) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (HA601335) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



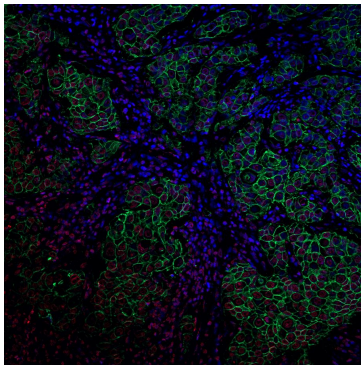
**Fig5:** Immunohistochemical analysis of paraffin-embedded mouse testis tissue with Mouse anti-Histone H3 antibody (HA601335) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (HA601335) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



**Fig6:** Immunohistochemical analysis of paraffin-embedded rat brain tissue with Mouse anti-Histone H3 antibody (HA601335) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (HA601335) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



**Fig7:** Immunofluorescence analysis of paraffin-embedded human breast cancer tissue labeling Histone H3 (HA601335, red) and HER2 / ErbB2 (HA721210, green).

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 2 minutes. The tissues were blocked in 10% negative goat serum for 1 hour at room temperature, washed with PBS. And then probed with the primary antibodies Histone H3 (HA601335, red) at 1/200 dilution and HER2 / ErbB2 (HA721210, green) at 1/200 dilution overnight at 4 °C, washed with PBS.

iFluor™ 594 conjugate-Goat anti-Mouse IgG (HA1126) and iFluor™ 488 conjugate-Goat anti-Rabbit IgG (HA1121) were used as the secondary antibodies at 1/1,000 dilution. DAPI was used as nuclear counterstain.

**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

### Background References

1. Flanagan J.F., Mi L.-Z., Chruszcz M., Cymborowski M., Clines K.L., Kim Y., Minor W., Rastinejad F., Khorasanizadeh S."Double chromodomains cooperate to recognize the methylated histone H3 tail."Nature 438:1181-1185(2005)
2. "Arginine methylation of the histone H3 tail impedes effector binding."Iberg A.N., Espejo A., Cheng D., Kim D., Michaud-Levesque J., Richard S., Bedford M.T.J. Biol. Chem. 283:3006-3010(2008)

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