Histone H3 Recombinant Antibody [6-A7-R] - Chicken IgY (Chimeric)

HA601684

Product Type:	Recombinant Chimeric, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IHC-P, IF-Tissue
Molecular Wt:	Predicted band size: 15 kDa
Clone number:	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 (Human cervical adenocarcinoma cell) cell lysate, A549 (Human lung adenocarcinoma cell) cell lysate, NIH/3T3 (Mouse fibroblast) cell lysate, PC-12 (Rat pheochromocytoma cell (undifferentiated)) cell lysate, C6 (Rat glioma cell) cell lysate.

Subcellular location: Nucleus.

Database links: SwissProt: P68431 human | P84243 human | Q16695 human | Q6NXT2 human | Q71DI3 human | P68433 mouse | P84228 mouse | Q6LED0 rat

Recommended Dilutions:

WB	1:5,000
IHC-P	1:200
IF-Tissue	1:500

Storage Buffer: 1*PBS (pH7.4), 0.1% BSA, 40% Glycerol, 0.2% Proclean 950.

Storage Instruction: Shipped at 4℃. Store at +4℃ short term (1-2 weeks). Store at -20℃ long term.

Purity: Protein A affinity purified.

Images

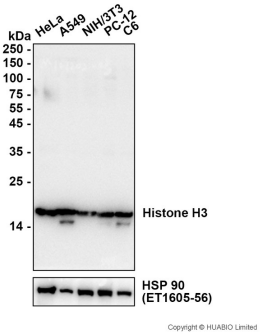


Fig1: Western blot analysis of Histone H3 on different lysates with Chicken anti-Histone H3 antibody (HA601684) at 1/5,000 dilution.

Lane 1: HeLa (Human cervical adenocarcinoma cell) cell lysate
Lane 2: A549 (Human lung adenocarcinoma cell) cell lysate
Lane 3: NIH/3T3 (Mouse fibroblast) cell lysate
Lane 4: PC-12 (Rat pheochromocytoma cell (undifferentiated)) cell lysate
Lane 5: C6 (Rat glioma cell) cell lysate

Lysates/proteins at 15 µg/Lane.
Exposure time: 3 minutes; ECL: K1801

Blocking: 5% NFDM/TBST, 1 hour at room temperature
Primary antibody: HA601684, 1/5,000 in primary antibody dilution buffer (K1803), overnight at 4 °C
Secondary antibody: Goat anti-Chicken IgY IgG-HRP (HA1026), 1/50,000 in 5% NFDM/TBST, 1 hour at room temperature

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

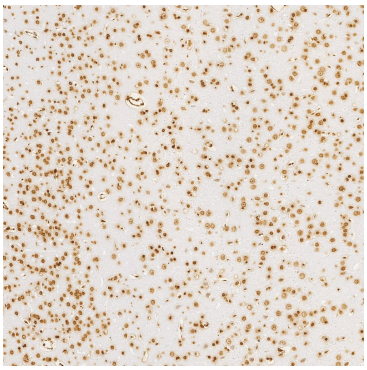


Fig2: Application: Immunohistochemistry (IHC-P)

Species: Rat
Tissue: Brain
Sample: Paraffin-embedded section

Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

Wash buffer: 1× TBST
Endogenous peroxidase blocking: 3% H_2O_2, 10 minutes at room temperature.
Blocking: 1% BSA + 10% normal goat serum, 10 minutes at room temperature.
Primary antibody: HA601684, 1/200, 1 hour at room temperature.
Secondary antibody: HA1146, 20 minutes at room temperature.

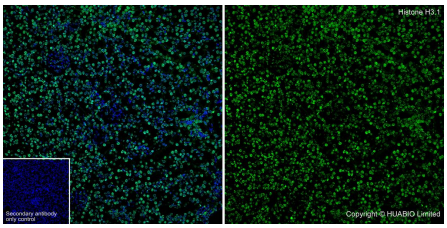


Fig3: Application: Immunofluorescence (IF-tissue)

Species: Mouse
Tissue: Kidney
Sample: Paraffin-embedded section

Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

Wash buffer: 1× TBST
Blocking: 10% normal goat serum + 1% Triton X-100 + 0.3 M Glycine in TBST, 30 minutes at room temperature.
Primary antibody: HA601684, 1/500, overnight at 4°C.
Secondary antibody: Goat Anti-Chicken IgY (iFluor™ 488, HA1139), 1.5 hours at room temperature.

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)