Anti-Histone H3 (acetyl K27) Antibody HA500046

Product Type:	Rabbit polyclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IHC-P, ChIP
Molecular Wt:	Predicted band size: 15 kDa
Description:	Eukaryotic histones are basic and water soluble nuclear proteins that form hetero-octameric nucleosome particles by wrapping 146 base pairs of DNA in a left-handed super-helical turn sequentially to form chromosomal fibers. Two molecules of each of the four core histones (H2A, H2B, H3 and H4) form the octamer, which is comprised of two H2A-H2B dimers and two H3-H4 dimers, forming two nearly symmetrical halves by tertiary structure. Histones are subject to posttranslational modification by enzymes primarily on their N-terminal tails, but also in their globular domains. Human and mouse Histone H4 are subject to methylation at Lys 20, a modification that may be necessary for select DNA transactions or chromatin state transitions.
Immunogen:	Synthetic peptide within human Histone H3 aa 20-40 (acetyl K27).
Positive control:	HeLa cell lysate, HeLa treated with 500ng/mL TSA for 4 hours cell lysate, NIH/3T3 cell lysate, NIH/3T3 treated with 400nM TSA for 18 hours cell lysate, C6 cell lysate, C6 treated with 1 μ M TSA for 18 hours cell lysate, human skin tissue, mouse colon tissue, human colon tissue, human colon carcinoma tissue.
Subcellular location:	Chromosome, Nucleosome core, Nucleus.
Database links:	SwissProt: P68431 Human P84243 Human Q16695 Human Q71DI3 Human Q6NXT2 Human
Recommended Dilutions: WB IHC-P ChIP	1:2,000 1:100-1:500 Use 0.5~2 µg for 25 µg of chromatin.
Storage Buffer:	1*TBS (pH7.4), 0.2% BSA, 50% Glycerol. Preservative: 0.05% Sodium Azide.
Storage Instruction:	Shipped at 4 $^\circ\!\!\mathbb{C}$. Store at +4 $^\circ\!\!\mathbb{C}$ short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20 $^\circ\!\!\mathbb{C}$ long term.
Purity:	Immunogen affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

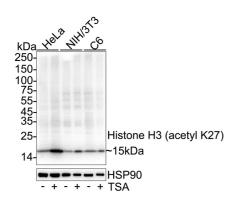
45 Service mail:support@huabio.cn

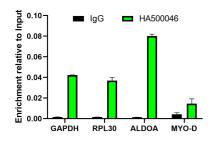


11.

Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images





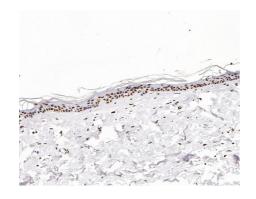


Fig1: Western blot analysis of Histone H3 (acetyl K27) on different lysates with Rabbit anti-Histone H3 (acetyl K27) antibody (HA500046) at 1/2,000 dilution.

Lane 1: HeLa cell lysate

Lane 2: HeLa treated with 500ng/mL TSA for 4 hours cell lysate Lane 3: NIH/3T3 cell lysate

Lane 4: NIH/3T3 treated with 400nM TSA for 18 hours cell lysate

Lane 5: C6 cell lysate

Lane 6: C6 treated with 1µM TSA for 18 hours cell lysate

Lysates/proteins at 20 µg/Lane.

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

Exposure time: 4 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 (HA500046) at 1/2,000 dilution was used in primary antibody dilution (K1803) at 4° C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Fig2: Chromatin immunoprecipitations were performed with crosslinked chromatin from HeLa cells treated with 500ng/mL TSA for 4 hours with Histone H3 (acetyl K27) (HA500046) or Normal Rabbit lgG according to the ChIP protocol. The enriched DNA was quantified by real-time PCR using indicated primers. The amount of immunoprecipitated DNA in each sample is represented as signal relative to the total amount of input chromatin, which is equivalent to one.

Fig3: Immunohistochemical analysis of paraffin-embedded human skin tissue with Rabbit anti-Histone H3 (acetyl K27) antibody (HA500046) 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 ddH₂O and PBS, and then probed with the primary antibody (HA500046) 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.

Hangzhou Huaan Biotechnology Co., Ltd.

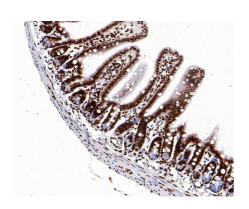


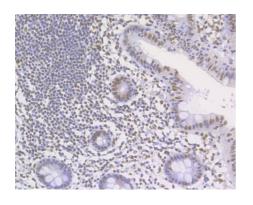
Technical:0086-571-89986345

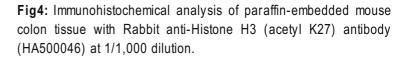
Service mail:support@huabio.cn



Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation







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 ddH₂O and PBS, and then probed with the primary antibody (HA500046) 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 human colon tissue using anti-Histone H3 (acetyl K27) antibody. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 20 minutes. The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA500046, 1/500) for 30 minutes 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.

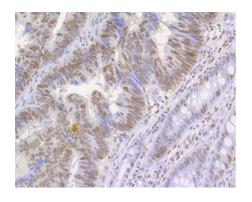


Fig6: Immunohistochemical analysis of paraffin-embedded human colon carcinoma tissue using anti-Histone H3 (acetyl K27) antibody. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 20 minutes. The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA500046, 1/500) for 30 minutes 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.

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

Background References

1. Wilson J.P. et. al. Proteomic analysis of fatty-acylated proteins in mammalian cells with chemical reporters reveals Sacylation of histone H3 variants. Mol. Cell. Proteomics 10:M110.001198-M110.001198(2011).

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

5 Service mail:support@huabio.cn



Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation