

**KD-Validated Anti-Histone H3 (acetyl K9) Rabbit Monoclonal Antibody**  
Rabbit monoclonal antibody  
Catalog # AGI1443

**Specification**

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**KD-Validated Anti-Histone H3 (acetyl K9) Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	<a href="#">P68431</a>
Reactivity	Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 15 kDa , observed, 15 kDa KDa
Gene Name	H3C1
Aliases	H3C1; H3 Clustered Histone 1; HIST1H3A; H3/A; H3FA; Histone Cluster 1 H3 Family Member A; H3 Histone Family, Member A; Histone Cluster 1, H3a; Histone 1, H3a; Histone H3.1; Histone H3/A; H3FC HIST1H3C; Histone H3/B; Histone H3/C; Histone H3/D; Histone H3/F; Histone H3/H; Histone H3/I; Histone; H3/J; Histone H3/K; Histone H3/L; HIST1H3B; HIST1H3D; HIST1H3E; HIST1H3F; HIST1H3G; HIST1H3H; HIST1H3I; HIST1H3J; H3C10; H3C11; H3C12; H3C2; H3C3; H3C4; H3C6; H3C7; H3C8; H3FL; H3FB; H3FD; H3FI; H3FH; H3FK; H3FF; H3FJ
Immunogen	A synthesized peptide derived from human Histone H3 (acetyl K9)

**KD-Validated Anti-Histone H3 (acetyl K9) Rabbit Monoclonal Antibody - Additional Information**

Gene ID	8350;8351;8352;8353;8354;8355;8356;8357;8358;8968
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**Other Names**

Histone H3.1, Histone H3/a, Histone H3/b, Histone H3/c, Histone H3/d, Histone H3/f, Histone H3/h, Histone H3/i, Histone H3/j, Histone H3/k, Histone H3/l, H3C1 (<a href="http://www.genenames.org/cgi-bin/gene\_symbol\_report?hgnc\_id=4766" target="\_blank">HGNC:4766</a>), H3FA, HIST1H3A

**KD-Validated Anti-Histone H3 (acetyl K9) Rabbit Monoclonal Antibody - Protein Information**

Name H3C1 ([HGNC:4766](#))

Synonyms H3FA, HIST1H3A

**Function**

Core component of nucleosome. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. 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.

**Cellular Location**

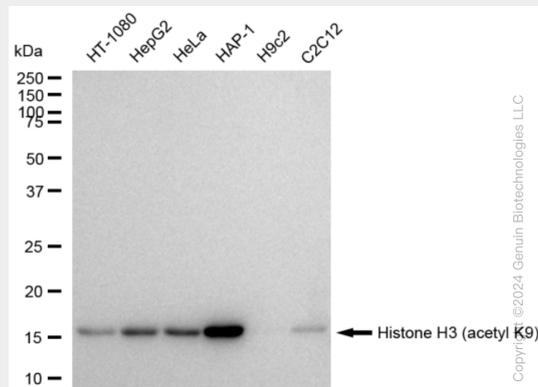
Nucleus. Chromosome.

**KD-Validated Anti-Histone H3 (acetyl K9) Rabbit Monoclonal Antibody - Protocols**

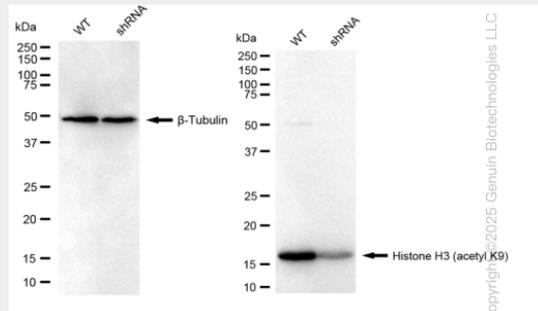
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**KD-Validated Anti-Histone H3 (acetyl K9) Rabbit Monoclonal Antibody - Images**

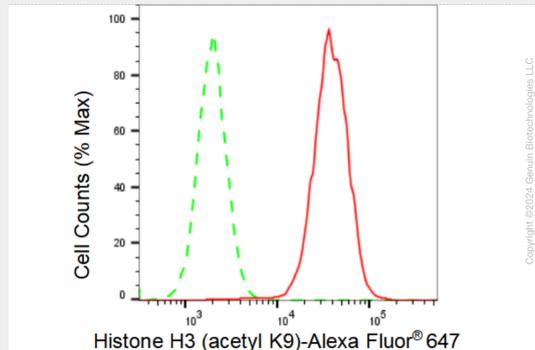


Western blotting analysis using anti-Histone H3 (acetyl K9) antibody (Cat#AGI1443). Total cell lysates (5 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Histone H3 (acetyl K9) antibody (Cat#AGI1443, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

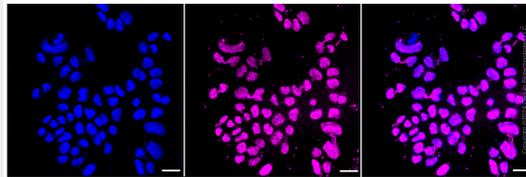


Western blotting analysis using anti-Histone H3 (acetyl K9) antibody (Cat#AGI1443). Histone H3

(acetyl K9) expression in wild type (WT) and Histone H3 (acetyl K9) shRNA knockdown (KD) HeLa cells with 30  $\mu\text{g}$  of total cell lysates.  $\beta$ -Tubulin serves as a loading control. The blot was incubated with anti-Histone H3 (acetyl K9) antibody (Cat#AGI1443, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of Histone H3 (acetyl K9) expression in HAP-1 cells using Histone H3 (acetyl K9) antibody (Cat#AGI1443, 1:2,000). Green, isotype control; red, Histone H3 (acetyl K9).



Immunocytochemical staining of HAP-1 cells with Histone H3 (acetyl K9) antibody (Cat#AGI1443, 1:1,000). Nuclei were stained blue with DAPI; Histone H3 (acetyl K9) was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: High. Scale bar: 20  $\mu\text{m}$ .