

# Histone H3 Antibody

Purified Mouse Monoclonal Antibody (Mab)

Catalog # AM8717b

## Product Information

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| <b>Application</b>       | WB, IHC-P, E   |
| <b>Primary Accession</b> | <a href="#">P68431</a>   |
| <b>Other Accession</b>   | <a href="#">Q6LED0</a> , <a href="#">P68433</a> , <a href="#">P68432</a> |
| <b>Reactivity</b>        | Human, Mouse, Rat  |
| <b>Predicted</b>         | Bovine   |
| <b>Host</b>              | Mouse  |
| <b>Clonality</b>         | Monoclonal   |
| <b>Isotype</b>           | IgG1   |
| <b>Clone Names</b>       | 809CT10.4.2  |
| <b>Calculated MW</b>     | 15404 Da   |

## Additional Information

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| <b>Other Names</b>        | Histone H31, 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, HIST1H3A, H3FA |
| <b>Target/Specificity</b> | This Histone H3 antibody is generated from a mouse immunized with Histone H3 recombinant protein.   |
| <b>Dilution</b>           | WB~~1:2000 IHC-P~~1:25 E~~Use at an assay dependent concentration.  |
| <b>Format</b>             | Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.     |
| <b>Storage</b>            | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.                                 |
| <b>Precautions</b>        | Histone H3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.   |

## Protein Information

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### Background

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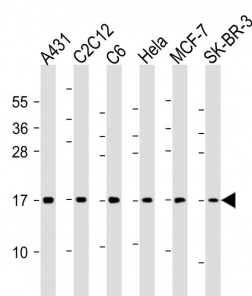
Core component of nucleosome. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and

nucleosome remodeling.

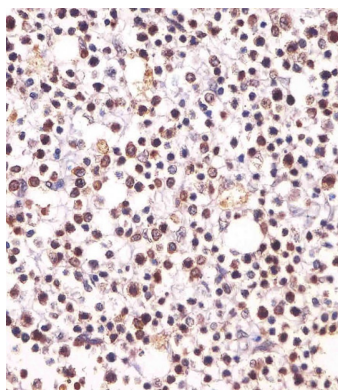
## References

Zhong R., et al. *Nucleic Acids Res.* 11:7409-7425(1983).  
Marashi F., et al. *Biochem. Cell Biol.* 64:277-289(1986).  
Albig W., et al. *Genomics* 10:940-948(1991).  
Kardalidou E., et al. *J. Cell. Biochem.* 52:375-383(1993).  
Runge D., et al. Submitted (OCT-1994) to the EMBL/GenBank/DBJ databases.

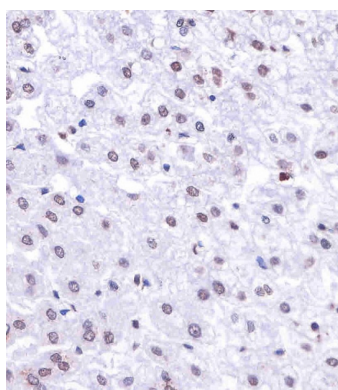
## Images



All lanes : Anti-Histone H3 Antibody at 1:2000 dilution  
Lane 1: A431 whole cell lysate Lane 2: C2C12 whole cell lysate  
Lane 3: C6 whole cell lysate Lane 4: HeLa whole cell lysate  
Lane 5: MCF-7 whole cell lysate Lane 6: SK-BR-3 whole cell lysate  
Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 15 kDa  
Blocking/Dilution buffer: 5% NFDM/TBST.



AM8433 staining Histone H3 in human tonsil tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0.5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



AM8433 staining Histone H3 in human liver tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0.5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.