

# Histone H3 Antibody

Purified Mouse Monoclonal Antibody (Mab)

Catalog # AW5292

## Product Information

---

|                   |  |
|-------------------|--|
| Application       | WB   |
| Primary Accession | <a href="#">P68431</a>   |
| Other Accession   | <a href="#">Q6LED0</a> , <a href="#">P68433</a> , <a href="#">P68432</a> |
| Reactivity        | Human, Rat   |
| Predicted         | Mouse  |
| Host              | Mouse  |
| Clonality         | Monoclonal   |
| Calculated MW     | 15404  |
| Isotype           | IgG1   |
| Antigen Source    | HUMAN  |

## Additional Information

---

|                    |   |
|--------------------|---|
| Gene ID            | 8350;8351;8352;8353;8354;8355;8356;8357;8358;8968   |
| Antigen Region     | 1-156   |
| Other Names        | 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 |
| Dilution           | WB~~1:1000  |
| Target/Specificity | This Histone H3 antibody is generated from a mouse immunized with Histone H3 recombinant protein.   |
| Format             | 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.     |
| Storage            | 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.                                 |
| Precautions        | Histone H3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.   |

## Protein Information

---

|          |                                    |
|----------|------------------------------------|
| Name     | H3C1 ( <a href="#">HGNC:4766</a> ) |
| Synonyms | H3FA, HIST1H3A                     |

|                          |  |
|--------------------------|--|
| <b>Function</b>          | 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. |
| <b>Cellular Location</b> | Nucleus. Chromosome.   |

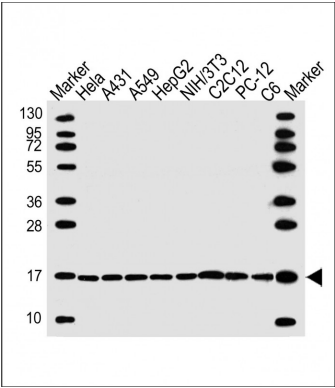
## Background

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.

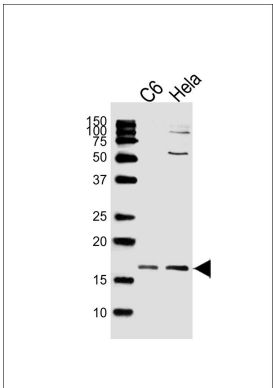
## References

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).  
Kardalinou 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 1:3000 dilution  
Lane 1: Hela whole cell lysate Lane 2: A431 whole cell lysate Lane 3: A549 whole cell lysate Lane 4: HepG2 whole cell lysate Lane 5: NIH/3T3 whole cell lysate Lane 6: C2C12 whole cell lysate Lane 7: PC-12 whole cell lysate Lane 8: C6 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 : 17 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot analysis of lysates from rat C6,Hela cell line (from left to right), using Histone H3 Antibody (Cat. #AW5292). AW5292 was diluted at 1:1000 at each lane. A goat anti-mouse IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.

## Citations

- [Overexpression of TOLLIP Protects against Acute Kidney Injury after Paraquat Intoxication through Inhibiting NLRP3 Inflammasome Activation Modulated by Toll-Like Receptor 2/4 Signaling](#)
- [Coptisine ameliorates renal injury in diabetic rats through the activation of Nrf2 signaling pathway.](#)

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