

**Histone H3 Antibody**  
**Purified Mouse Monoclonal Antibody (Mab)**  
**Catalog # AW5292**

**Specification**

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**Histone H3 Antibody - Product Information**

Application	WB,E
Primary Accession	<a href="#">P68431</a>
Other Accession	<a href="#">Q6LED0</a> , <a href="#">P68433</a> , <a href="#">P68432</a>
Reactivity	Human, Rat
Predicted	Bovine, Mouse
Host	Mouse
Clonality	Monoclonal
Calculated MW	H=15;M=15;Rat=15 KDa
Isotype	IgG1
Antigen Source	HUMAN

**Histone H3 Antibody - 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~~1:3000

**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.

**Histone H3 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**

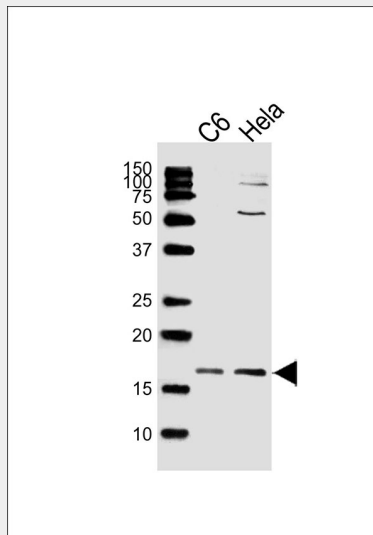
Nucleus. Chromosome.

**Histone H3 Antibody - Protocols**

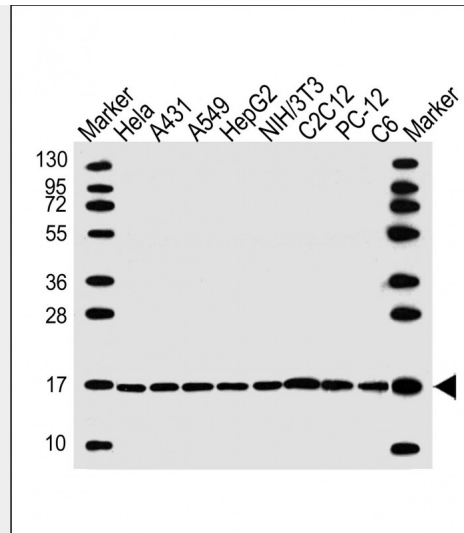
Provided below are standard protocols that you may find useful for product applications.

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

**Histone H3 Antibody - Images**



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.



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.

### Histone H3 Antibody - 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.

### Histone H3 Antibody - 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/DDBJ databases.

### Histone H3 Antibody - Citations

- [Coptisine ameliorates renal injury in diabetic rats through the activation of Nrf2 signaling pathway.](#)