

**Histone H3 Antibody**  
**Purified Mouse Monoclonal Antibody (Mab)**  
**Catalog # AM8717b****Specification**

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**Histone H3 Antibody - Product Information**

Application	<b>WB, IHC-P,E</b>
Primary Accession	<a href="#">P68431</a>
Other Accession	<a href="#">Q6LED0</a> , <a href="#">P68433</a> , <a href="#">P68432</a>
Reactivity	<b>Human, Mouse, Rat</b>
Predicted	<b>Bovine</b>
Host	<b>Mouse</b>
Clonality	<b>Monoclonal</b>
Isotype	<b>IgG1</b>

**Histone H3 Antibody - Additional Information**

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

**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

**Target/Specificity**

This Histone H3 antibody is generated from a mouse immunized with Histone H3 recombinant protein.

**Dilution**

WB~~1:2000

IHC-P~~1:25

**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**

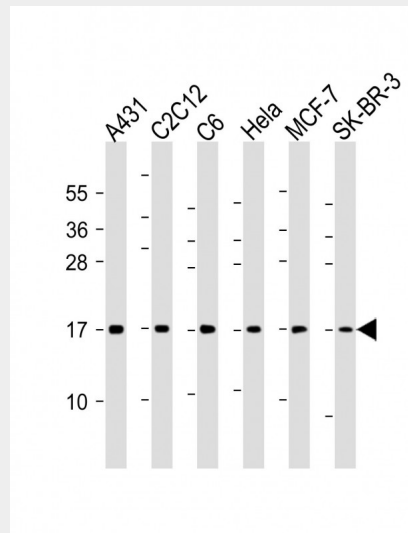
Nucleus. Chromosome.

**Histone H3 Antibody - Protocols**

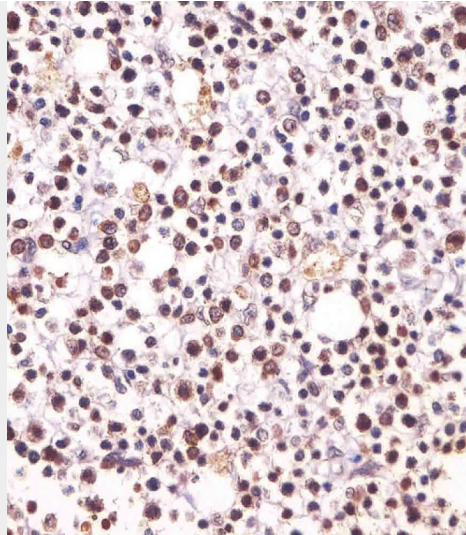
Provided below are standard protocols that you may find useful for product applications.

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

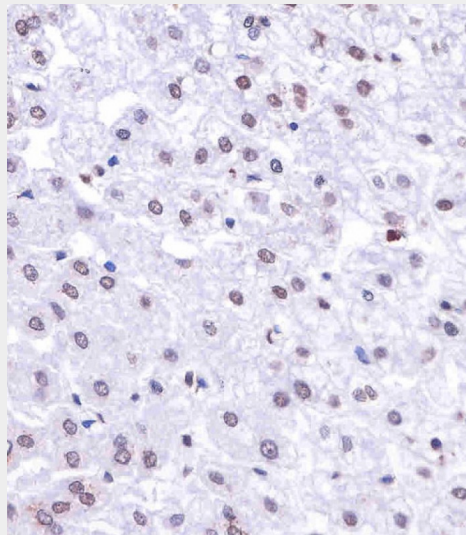
**Histone H3 Antibody - Images**



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 hour 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 hour at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.

### **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**

- [Role of allograft inflammatory factor-1 in the regulation of inflammation and oxidative stress in primary peritoneal mesothelial cells.](#)
- [miR-196a-5p promotes metastasis of colorectal cancer via targeting I \$\kappa\$ B \$\alpha\$ .](#)
- [TRAF-interacting protein with forkhead-associated domain \(TIFA\) transduces DNA damage-induced activation of NF- \$\kappa\$ B.](#)
- [Nucleolar and coiled-body phosphoprotein 1 \(NOLC1\) regulates the nucleolar retention of TRF2.](#)
- [Anterior gradient 2 is induced in cutaneous wound and promotes wound healing through its adhesion domain.](#)