

# Histone H3 Antibody

Purified Mouse Monoclonal Antibody (Mab)

Catalog # AM8433

## Product Information

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

## Additional Information

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<b>Gene ID</b>	8350;8351;8352;8353;8354;8355;8356;8357;8358;8968
<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~~1:100~500 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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<b>Name</b>	H3C1 ( <a href="#">HGNC:4766</a> )
<b>Synonyms</b>	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.

#### Cellular Location

Nucleus. Chromosome.

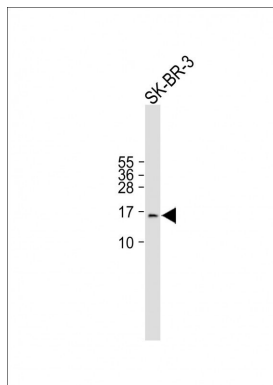
## Background

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).  
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 at 1:500 dilution Lane 1:  
SK-BR-3 whole cell lysate Lysates/proteins at 20 µg per  
lane. Secondary Goat Anti-Mouse IgG/A/M(H/L),  
Peroxidase conjugated at 1/2000 dilution. Observed band  
size : 15kDa Blocking/Dilution buffer: 5% NFDM/TBST.

## Citations

- [Isorhynchophylline ameliorates paraquat-induced acute kidney injury by attenuating oxidative stress and mitochondrial damage via regulating toll-interacting expression](#)
- [Inhibition of SGLT1 protects against glycemic variability-induced cardiac damage and pyroptosis of cardiomyocytes in diabetic mice](#)
- [Protective effect of toll-interacting protein overexpression against paraquat-induced lung injury in mice and A549 cells through inhibiting oxidative stress, inflammation, and NF-κB signaling pathway](#)
- [Intermittent high glucose induces pyroptosis of rat H9C2 cardiomyocytes via sodium-glucose cotransporter 1](#)
- [Involvement of miR-27a-3p in diabetic nephropathy via affecting renal fibrosis, mitochondrial dysfunction, and endoplasmic reticulum stress](#)
- [Suppression of autophagy through JAK2/STAT3 contributes to the therapeutic action of rhynchophylline on asthma](#)
- [Paeoniflorin accelerates foot wound healing in diabetic rats through activating the Nrf2 pathway](#)
- [Paeoniflorin inhibited nod-like receptor protein-3 inflammasome and NF-κB-mediated inflammatory reactions in diabetic foot ulcer by inhibiting the chemokine receptor CXCR2](#)
- [HOXB5 promotes proliferation, migration, and invasion of pancreatic cancer cell through the activation of the GSK3β/β-catenin pathway](#)
- [Tectorigenin inhibits inflammation and pulmonary fibrosis in allergic asthma model of ovalbumin-sensitized guinea pigs](#)

- [Polydatin ameliorates chemotherapy-induced cognitive impairment \(chemobrain\) by inhibiting oxidative stress, inflammatory response, and apoptosis in rats](#)
- [miR-29c-3p inhibits microglial NLRP3 inflammasome activation by targeting NFAT5 in Parkinson's disease](#)
- [MiR-144-5p limits experimental abdominal aortic aneurysm formation by mitigating M1 macrophage-associated inflammation: Suppression of TLR2 and OLR1](#)
- [Icariside II attenuates eosinophils-induced airway inflammation and remodeling via inactivation of NF-κB and STAT3 in an asthma mouse model](#)
- [Coptisine ameliorates renal injury in diabetic rats through the activation of Nrf2 signaling pathway](#)
- [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 IκBα](#)
- [TRAF-interacting protein with forkhead-associated domain \(TIFA\) transduces DNA damage-induced activation of NF-κB](#)
- [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](#)

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