

Histone H3
Purified Mouse Monoclonal Antibody (Mab)
Catalog # AM8433**Specification**

Histone H3 - Product Information

Application	WB,E
Primary Accession	P68431
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1

Histone H3 - Additional Information**Gene ID** 8350;8351;8352;8353;8354;8355;8356;8357;8358;8968**Other Names**

Histone H3.1, 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, H3C1 ([HGNC:4766](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=4766)), H3FA, HIST1H3A

Target/Specificity

This antibody is generated from a mouse immunized with a KLH conjugated synthetic peptide between 1-136 amino acids from human.

Dilution

WB~~1:500-1:1000

E~~Use at an assay dependent concentration.

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 is for research use only and not for use in diagnostic or therapeutic procedures.

Histone H3 - 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

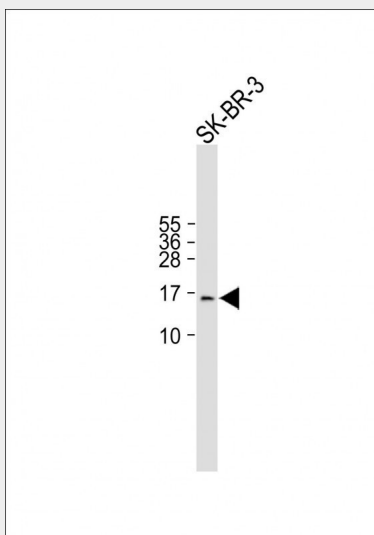
Nucleus. Chromosome.

Histone H3 - 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 - 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.

Histone H3 - 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 - 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.

Histone H3 - 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- \$\kappa\$ B 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 though activating the Nrf2 pathway](#)
- [Paeoniflorin inhibited nod-like receptor protein-3 inflammasome and NF- \$\kappa\$ B-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 GSK3 \$\beta\$ / \$\beta\$ -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- \$\kappa\$ B and STAT3 in an asthma mouse model](#)
- [Coptisine ameliorates renal injury in diabetic rats through the activation of Nrf2 signaling pathway](#)