

Histone H3 Antibody

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AM8433-400 □

Specification

Histone H3 Antibody - Product info

Application	WB, IHC-P
Primary Accession	P68431
Reactivity	Human, Mouse, Rat
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Names	809CT10.4.2
Calculated MW	15404

Histone H3 Antibody - Additional info

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

IHC-P~~1:25
WB~~1:2000

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.

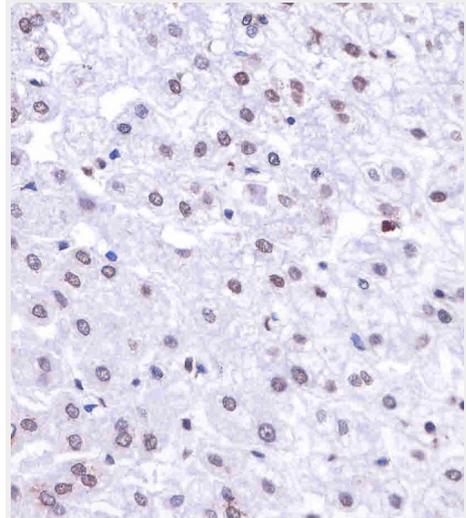
Histone H3 Antibody - Protein Information

Name HIST1H3A

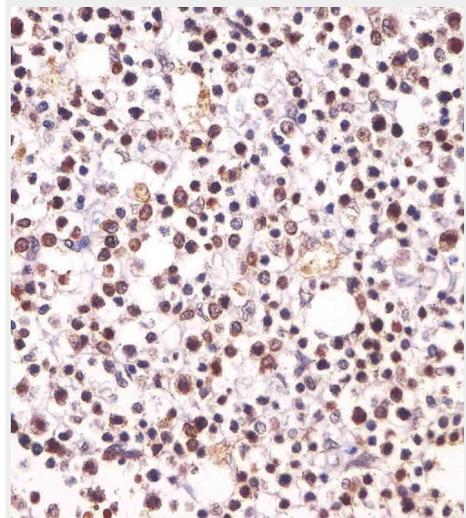
Synonyms H3FA

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,



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



AM8433 staining Histone H3 in human tonsil tissue sections by

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 - 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.

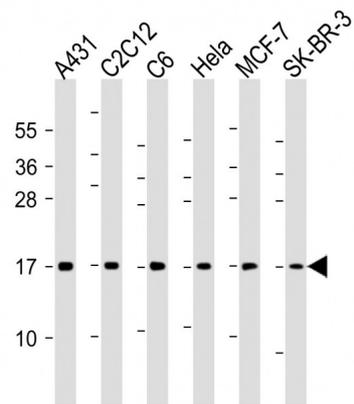
Histone H3 Antibody - References

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.](#)
- [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.](#)

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



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% NFDN/TBST.