

Histone H3 Antibody

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AW5292

Specification

Histone H3 Antibody - Product Information

Application WB,E
Primary Accession P68431

Other Accession <u>Q6LED0</u>, <u>P68433</u>, <u>P68432</u>

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 H3/1, Histone H3/a, Histone H3/b, Histone H3/c, Histone H3/d, Histone H3/f, Histone H3/h, 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

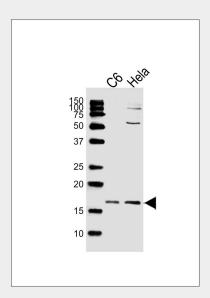
Nucleus. Chromosome.

Histone H3 Antibody - Protocols

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

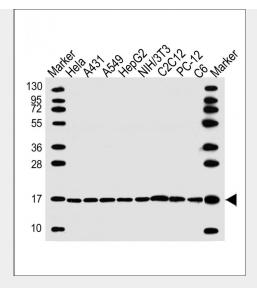
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

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 μ g 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).

Kardalinou 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

- Overexpression of TOLLIP Protects against Acute Kidney Injury after Paraquat Intoxication through Inhibiting NLRP3 Inflammasome Activation Modulated by Toll-Like Receptor 2/4 Signaling
- Coptisine ameliorates renal injury in diabetic rats through the activation of Nrf2 signaling pathway.