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Anti-Histone H3 (Rabbit) Antibody

Histone H3 Antibody
Catalog # ASR3741

Specification

Anti-Histone H3 (Rabbit) Antibody - Product Information

Host	**Rabbit**
Conjugate	**Unconjugated**
Target Species	**Human**
Reactivity	**Human**
Clonality	**Polyclonal**
Application	**WB, IHC, E, I, LCI**
Application Note	**Histone H3 antibody has been tested for use in ELISA, IHC, and western blot. For western blots expect a band of approximately 15.4 kDa in size corresponding to the Histone 3 protein. Specific conditions for reactivity should be optimized by the end user.**
Physical State	**Liquid (sterile filtered)**
Buffer	**0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2**
Immunogen	**Anti-Histone-3 was prepared from whole rabbit serum produced by repeated immunizations with a peptide corresponding to the c-terminus region of human histone-3.**
Preservative	**0.01% (w/v) Sodium Azide**

Anti-Histone H3 (Rabbit) Antibody - Additional Information

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

Other Names
8350

Purity
Anti-Histone H3 is directed against the human histone 3 protein. The product was prepared from monospecific antiserum by delipidation and defibrination. A BLAST analysis was used to suggest reactivity with human and multiple other eukaryotic (mouse, rat, chicken, dog, monkey, Xenopus laevis, Arabidopsis thaliana, Caenorhabditis elegans, Fruit fly). Cross-reactivity with histone-3 from other sources have not been determined.

Storage Condition
Store H3 Antibody at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Precautions Note

This product is for research use only and is not intended for therapeutic or diagnostic applications.

Anti-Histone H3 (Rabbit) 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.

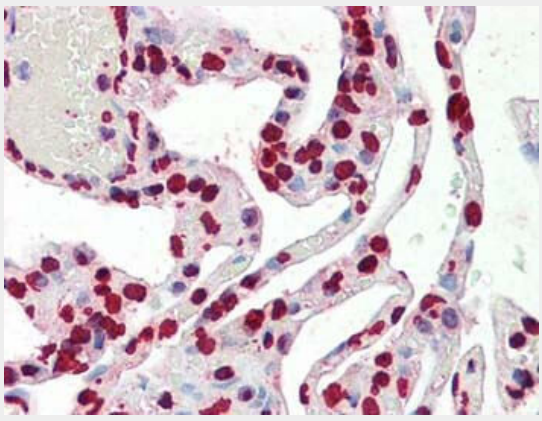
Cellular Location
Nucleus. Chromosome.

Anti-Histone H3 (Rabbit) 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 Cytomety
- Cell Culture

Anti-Histone H3 (Rabbit) Antibody - Images



Immunohistochemistry of Histone H3 antibody. Tissue: human Lung. Fixation: formalin fixed paraffin embedded. Antigen retrieval: user optimized. Primary antibody: 100-401-E81 Histone H3 antibody at 1:100. Secondary antibody: Peroxidase goat anti-rabbit at 1:10,000 for 45 min at RT. Image provided courtesy of Andrew Elston, LifeSpan BioSciences, Inc.

Anti-Histone H3 (Rabbit) Antibody - Background

Histone H3 is one of the five main histone proteins involved in the structure of chromatin in eukaryotic cells. Histone proteins are highly post-translationally modified with Histone H3 being the most extensively modified of the five histones. The N-terminal tail of histone H3 protrudes from the globular nucleosome core and can undergo several different types of post-translational modification that influence cellular processes. 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 is ideal for investigators involved in Cell Signaling, Epigenetics, Nuclear Signaling research and Signal Transduction research.