

**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

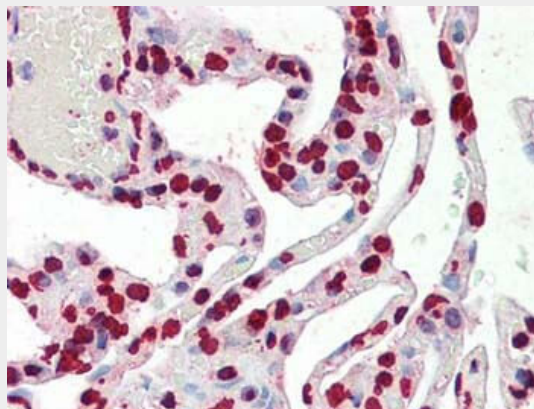
Nucleus. Chromosome.

### 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 Cytometry](#)
- [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.