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# HIST3H3 Antibody (Center)

**Affinity Purified Rabbit Polyclonal Antibody (Pab)**

**Catalog # AP12225c**

## Specification

### HIST3H3 Antibody (Center) - Product Information

| | |
|---|---|
| Application | **WB, FC,E** |
| Primary Accession | Q16695 |
| Other Accession | NP_003484.1 |
| Reactivity | **Human** |
| Host | **Rabbit** |
| Clonality | **Polyclonal** |
| Isotype | **Rabbit Ig** |
| Calculated MW | **15508** |
| Antigen Region | **50-78** |

### HIST3H3 Antibody (Center) - Additional Information

**Gene ID** 8290

**Other Names**
Histone H31t, H3/t, H3t, H3/g, HIST3H3, H3FT

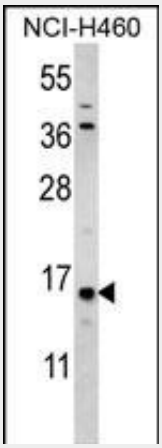
**Target/Specificity**
This HIST3H3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 50-78 amino acids from the Central region of human HIST3H3.

**Dilution**
WB~~1:1000
FC~~1:10~50

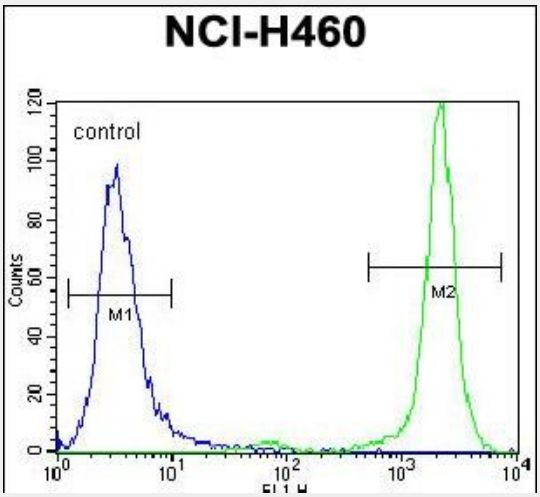
**Format**
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**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**
HIST3H3 Antibody (Center) is for research




HIST3H3 Antibody (Center) (Cat. #AP12225c) western blot analysis in NCI-H460 cell line lysates (35ug/lane).This demonstrates the HIST3H3 antibody detected the HIST3H3 protein (arrow).




HIST3H3 Antibody (Center) (Cat. #AP12225c) flow cytometric analysis of NCI-H460 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

### HIST3H3 Antibody (Center) - Background

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

**HIST3H3 Antibody (Center) - Protein Information**

**Name** H3-4 (HGNC:4778)

**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.

**Tissue Location**
Expressed in testicular cells.

**HIST3H3 Antibody (Center) - 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

Histones are basic nuclear proteins that are responsible
for the nucleosome structure of the chromosomal fiber in
eukaryotes. Nucleosomes consist of approximately 146 bp of DNA
wrapped around a histone octamer composed of pairs of each of the
four core histones (H2A, H2B, H3, and H4). The chromatin fiber is
further compacted through the interaction of a linker histone, H1,
with the DNA between the nucleosomes to form higher order chromatin
structures. This gene is intronless and encodes a member of the
histone H3 family. Transcripts from this gene lack polyA tails;
instead, they contain a palindromic termination element. This gene
is located separately from the other H3 genes that are in the
histone gene cluster on chromosome 6p22-p21.3. [provided by
RefSeq].

**HIST3H3 Antibody (Center) - References**

Tachiwana, H., et al. Proc. Natl. Acad. Sci. U.S.A. 107(23):10454-10459(2010)
Nair, S.S., et al. EMBO Rep. 11(6):438-444(2010)
Rampakakis, E., et al. J. Cell. Biochem. 108(2):400-407(2009)
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