

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 IgG
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 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.

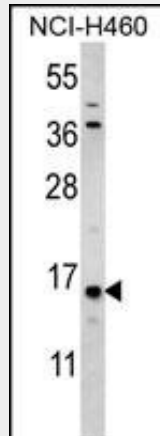
Tissue Location

Expressed in testicular cells.

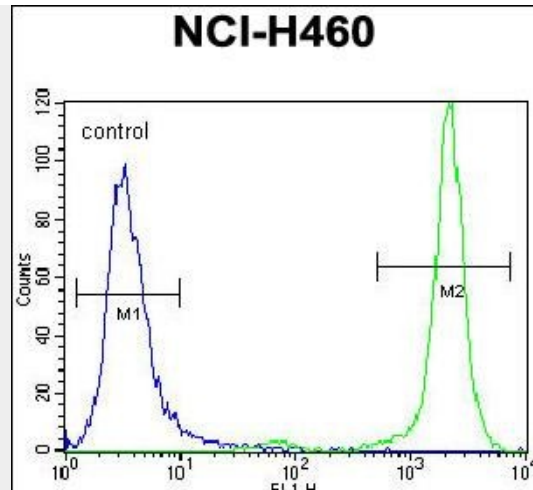
HIST3H3 Antibody (Center) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

HIST3H3 Antibody (Center) - Images

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

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)
Mochizuki, K., et al. Biochem. Biophys. Res. Commun. 371(2):324-327(2008)
Meyer, K.D., et al. EMBO J. 27(10):1447-1457(2008)