

HH3 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO2005a**Specification****HH3 Antibody - Product Information**

Application	E, WB, FC
Primary Accession	Q16695
Reactivity	Human, Mouse
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	15.5kDa KDa

Description

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.

Immunogen

Synthesized peptide of human HH3 (AA: ARTKQTAR(AcK)STG-C).

Formulation

Purified antibody in PBS with 0.05% sodium azide.

HH3 Antibody - Additional Information

Gene ID 8290

Other Names

Histone H3.1t, H3/t, H3t, H3/g, HIST3H3, H3FT

Dilution

E~~1/10000

WB~~1/500 - 1/2000

FC~~1/200 - 1/400

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

HH3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

HH3 Antibody - 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.

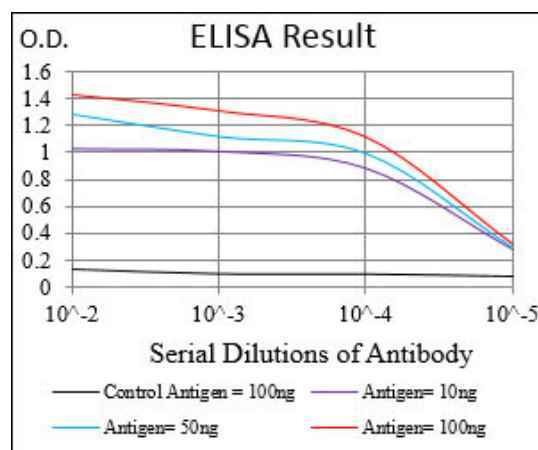
Tissue Location

Expressed in testicular cells.

HH3 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](#)



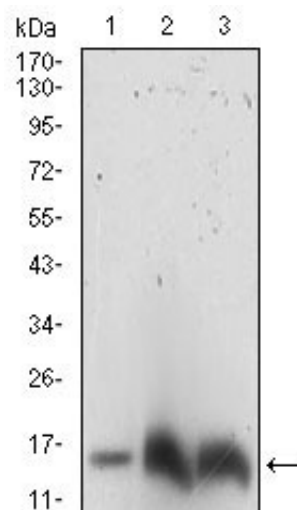


Figure 1: Western blot analysis using AHH3 mouse mAb against NIH3T3 (1), Hela (2), K562 (3) cell lysate.

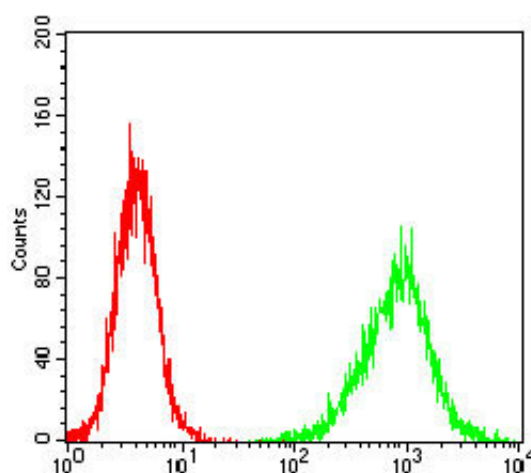


Figure 2: Flow cytometric analysis of NIH/3T3 cells using HH3 mouse mAb (green) and negative control (red).

HH3 Antibody - References

1. J Cell Biochem. 2009 Oct 1;108(2):400-7. Trends Biochem Sci. 2005 Jul;30(7):357-9.