

HH3 Antibody

Purified Mouse Monoclonal Antibody

Catalog # AO2005a

Product Information

Application	WB, FC, E
Primary Accession	Q16695
Reactivity	Human, Mouse
Host	Mouse
Clonality	Monoclonal
Clone Names	4E9B11
Isotype	IgG1
Calculated MW	15508
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.

Additional Information

Gene ID	8290
Other Names	Histone H3.1t, H3/t, H3t, H3/g, HIST3H3, H3FT
Dilution	WB~~1/500 - 1/2000 FC~~1/200 - 1/400 E~~1/10000
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.

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.

References

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

Images

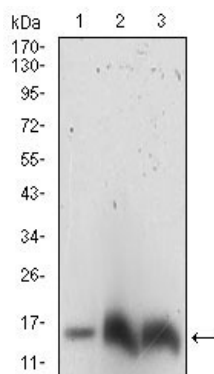


Figure 1: Western blot analysis using AHH3 mouse mAb against NIH3T3 (1), Hela (2), K562 (3) cell lysate.

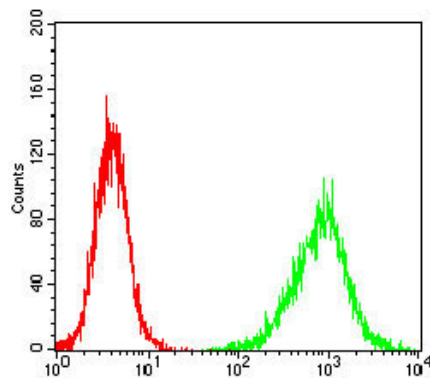


Figure 2: Flow cytometric analysis of NIH/3T3 cells using HH3 mouse mAb (green) and negative control (red).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.