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# HH3 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO2007a

## Product Information

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|---|---|
| **Application** | WB, FC, E |
| **Primary Accession** | Q71DI3 |
| **Reactivity** | Human, Mouse, Rat |
| **Host** | Mouse |
| **Clonality** | Monoclonal |
| **Clone Names** | 6D3B9 |
| **Isotype** | IgG1 |
| **Calculated MW** | 15388 |
| **Description** | Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. This structure consists of approximately 146 bp of DNA wrapped around a nucleosome, an 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 found in a histone cluster on chromosome 1. This gene is one of four histone genes in the cluster that are duplicated; this record represents the centromeric copy. |
| **Immunogen** | Synthesized peptide fragment of human HH3 (AA: 121-136) expressed in E. Coli. |
| **Formulation** | Purified antibody in PBS with 0.05% sodium azide |

## Additional Information

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| **Gene ID** | 126961;333932;653604 |
| **Other Names** | Histone H3.2, H3-clustered histone 13 {ECO:0000312\|HGNC:HGNC:25311}, H3-clustered histone 14 {ECO:0000312\|HGNC:HGNC:20503}, H3-clustered histone 15 {ECO:0000312\|HGNC:HGNC:20505}, Histone H3/m, Histone H3/o, H3C15 (HGNC:20505) |
| **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

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| **Name** | H3C15 ( HGNC:20505) |
| **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. |

## References

Br J Nutr. 2010 Feb;103(3):344-51.J Biol Chem. 2008 Feb 8;283(6):3006-10.

## Images

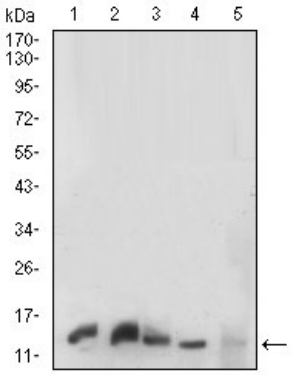


Figure 1: Western blot analysis using HH3 mouse mAb against K562 (1), C6(2),HEK293(3),PC-12(4) and NIH/3T3(5) cell lysate.

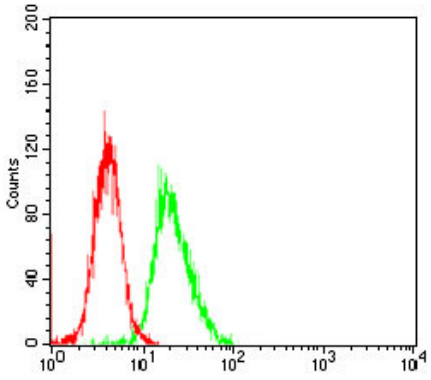


Figure 2: Flow cytometric analysis of NIH/3T3 cells using HH3 mouse mAb (green) and negative control (red).