

**HH3 Antibody**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO2007a****Specification****HH3 Antibody - Product Information**

Application	WB, FC, E
Primary Accession	<a href="#">Q71DI3</a>
Reactivity	Human, Mouse, Rat
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	15.4kDa KDa

**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

**HH3 Antibody - Additional Information**

**Gene ID** 126961;333932;653604

**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.

**HH3 Antibody - Protein Information**

**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.

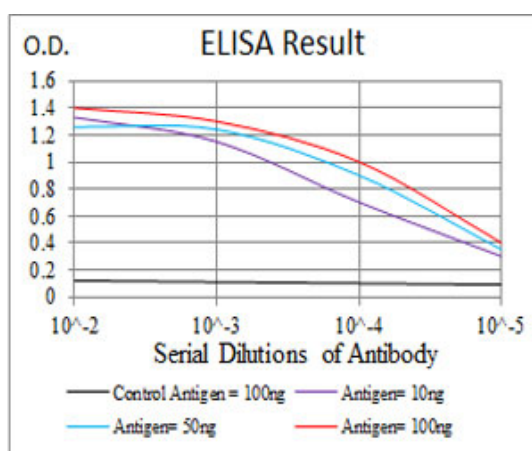
### Cellular Location

Nucleus. Chromosome.

## 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](#)



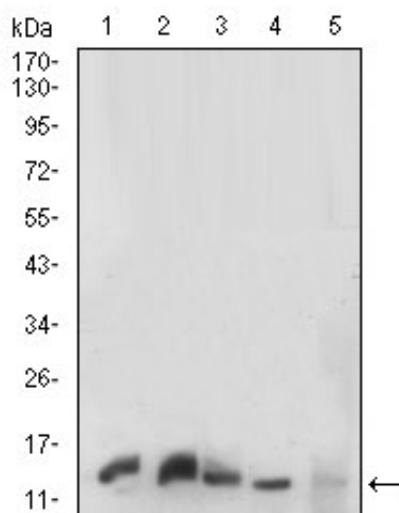


Figure 1: Western blot analysis using HH3 mouse mAb against K562 (1), C6(2), HEK293(3), PC-12(4) and NIH/3T3(5) cell lysate.

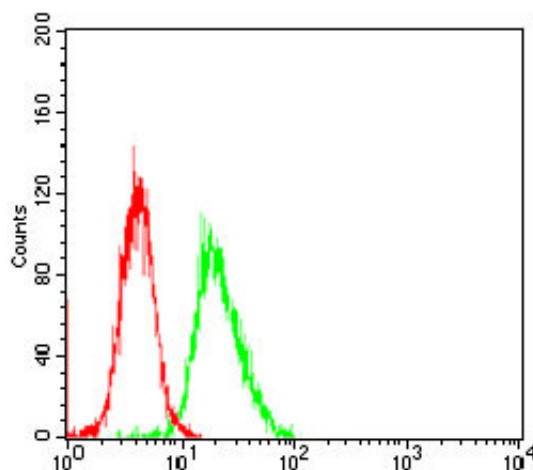


Figure 2: Flow cytometric analysis of NIH/3T3 cells using HH3 mouse mAb (green) and negative control (red).

### HH3 Antibody - References

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