10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

HH3 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO2007a

Specification

HH3 Antibody - Product Information

Application	**E, WB, FC**
Primary Accession	Q71DI3
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
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

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Name H3C15 (HGNC:20505)

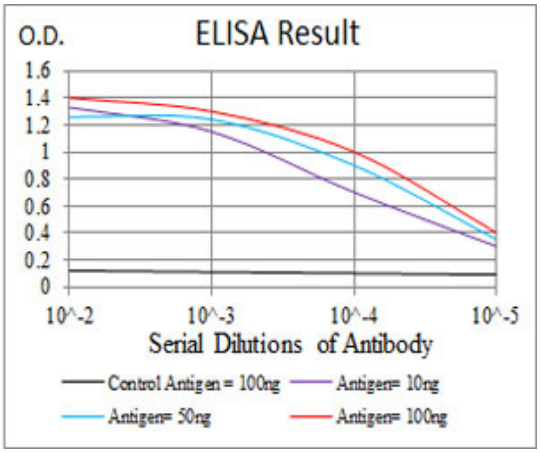
Function
Core component of nucleosome. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA 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 Cytomety
- Cell Culture



10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

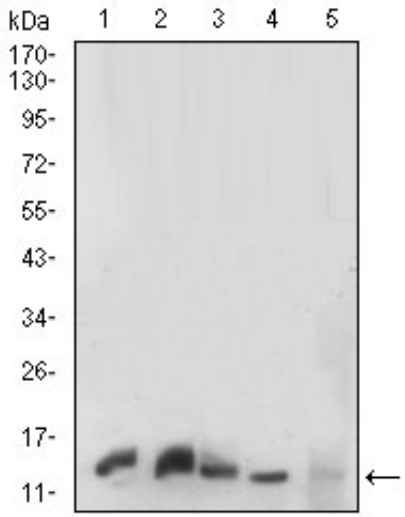


Figure 1: Western blot analysis using HH3 mouse mAb against K562 (1), C6(2),HEK293(3),PC-12(4) and NIH/3T3(5) cell lysate.

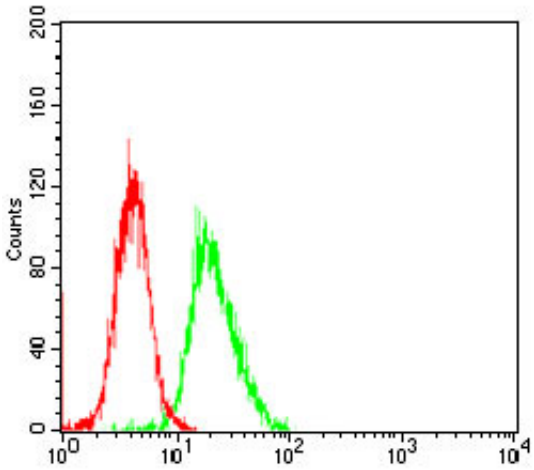


Figure 2: Flow cytometric analysis of NIH/3T3 cells using HH3 mouse mAb (green) and negative control (red).

HH3 Antibody - References

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