

# Anti-HIST1H1E K16me2 Antibody

02/20

CATALOG NO.: A2054-100 (100 µl)

**BACKGROUND DESCRIPTION:** Histones are basic nuclear proteins responsible for nucleosome structure of the chromosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, and H4) form an octamer, around which approximately 146 bp of DNA is wrapped in repeating units, called nucleosomes. The linker histone, H1, interacts with linker DNA between nucleosomes and functions in the compaction of chromatin into higher order structures. This gene is intronless and encodes a replication-dependent histone that is a member of the histone H1 family. Transcripts from this gene lack poly A tails but instead contain a palindromic termination element. This gene is found in the large histone gene cluster on chromosome 6.

**ALTERNATE NAMES:** Histone H1.4 (Histone H1b) (Histone H1s-4), HIST1H1E, H1F4

**ANTIBODY TYPE:** Polyclonal

**HOST/ISOTYPE:** Rabbit / Ig

**IMMUNOGEN:** Methylated peptide targeting residues around Lysine 16 of human Histone H1.4

**PURIFICATION:** Antigen Affinity purified

**FORM:** Liquid

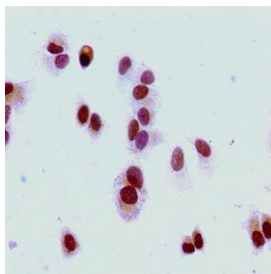
**FORMULATION:** In 0.01 M PBS, 50% glycerol, 0.03% proclin 300, pH 7.4

**SPECIES REACTIVITY:** Human

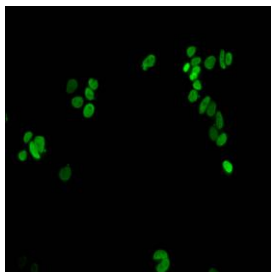
**STORAGE CONDITIONS:** Store at -20°C. Avoid freeze / thaw cycles

**APPLICATIONS AND USAGE:** ICC 1:20-1:200, IF 1:50-1:200

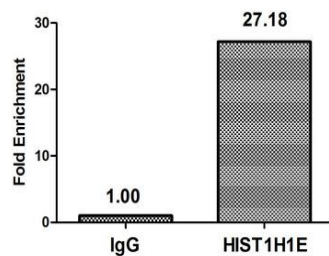
**Note:** This information is only intended as a guide. The optimal dilutions must be determined by the user



Immunocytochemistry analysis of MCF-7 cells using Anti-HIST1H1E K16me2 antibody at dilution of 1:100.



Immunofluorescence analysis of MCF-7 cells using Anti-HIST1H1E K16me2 antibody at dilution of 1:100 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG (H+L) as secondary antibody.



ChIP analysis of HeLa cells ( $4 \times 10^6$ ) were treated with Micrococcal Nuclease, sonicated, and immunoprecipitated with 5  $\mu$ g Anti-HIST1H1E K16me2 antibody or a control normal rabbit IgG. The resulting ChIP DNA was quantified using real-time PCR with primers against the  $\beta$ -Globin promoter.

**RELATED PRODUCTS:**

Anti-H4R3me1 Antibody (A2021)  
Anti-H3R2me2(asym) Antibody (A2025)  
Anti-H3R8me2(sym) Antibody (A2046)  
Anti-H3R2me1 Antibody (A2030)

***FOR RESEARCH USE ONLY! Not to be used on humans.***