

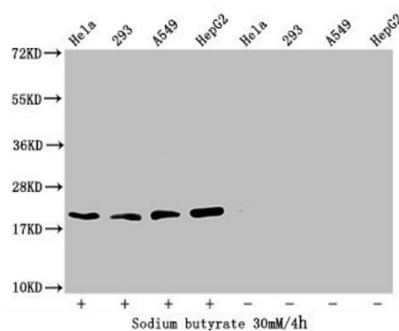
Anti-HIST1H1C K84ac Antibody

CATALOG NO.: A2055-100 (100 µl)

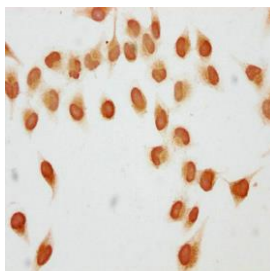
BACKGROUND DESCRIPTION: Histones are basic nuclear proteins responsible for nucleosome structure of the chromosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, and H4) form an octamer, around which approximately 146 bp of DNA is wrapped in repeating units, called 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 H1.2, Histone H1c, Histone H1d, Histone H1s-1, HIST1H1C, H1F2
ANTIBODY TYPE:	Polyclonal
HOST/ISOTYPE:	Rabbit / IgG
IMMUNOGEN:	Acetylated peptide sequence targeting residues around Lysine 84 of human Histone H1.2
MOLECULAR WEIGHT:	22 kDa
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:	WB 1:100-1:1000, ICC 1:1-1:10

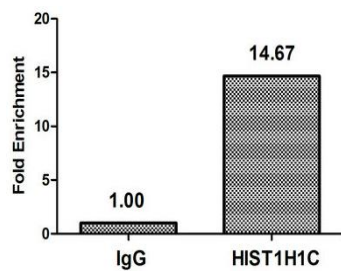
This information is only intended as a guide. The optimal dilutions must be determined by the user



Western Blot analysis of HeLa, 293, A549, and HepG2 whole cell lysates; Treated (+) or Untreated (-) with 30 mM sodium butyrate for 4 hrs using Anti-HIST1H1C K84ac antibody at 2.6 µg/ml. Goat polyclonal to rabbit IgG was used as secondary antibody at 1:50,000 dilution.



Immunocytochemistry analysis of HeLa cells (treated with 30 mM sodium butyrate for 4 hrs) using Anti-HIST1H1C K84ac antibody at a dilution of 1:5. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked with 10% normal goat serum 30 min at RT. The primary antibody was incubated at 4°C overnight, detected using a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



ChIP analysis of HeLa cells (4×10^6 , treated with 30 mM sodium butyrate for 4 hrs) were treated with Micrococcal Nuclease, sonicated, and immunoprecipitated with 5 μ g Anti-HIST1H1C K84ac antibody or a control normal rabbit IgG. The resulting ChIP DNA was quantified using real-time PCR with primers against the β -Globin promoter.

RELATED PRODUCTS:

H3K9ac polyclonal antibody (6872)
H4K8ac polyclonal antibody (6878)
H3K18ac polyclonal antibody (6867)
Anti-H3K56ac Antibody (A2043)

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