

Anti-H2BK12me1 Antibody

CATALOG NO.: A2048-100 (100 µl)

BACKGROUND DESCRIPTION: Histones are basic nuclear proteins that are responsible for the 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. The protein has antibacterial and antifungal antimicrobial activity. This gene is intronless and encodes a replication-dependent histone that is a member of the histone H2B 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 H2B type 1-C/E/F/G/I (Histone H2B.1 A) (Histone H2B.a) (H2B/a) (Histone H2B.g) (H2B/g) (Histone H2B.h) (H2B/h) (Histone H2B.k) (H2B/k) (Histone H2B.l) (H2B/l), HIST1H2BC; HIST1H2BE; HIST1H2BF; HIST1H2BG; HIST1H2BI, H2BFL; H2BFH; H2BFG; H2BFA; H2BFK

ANTIBODY TYPE: Polyclonal

HOST/ISOTYPE: Rabbit / IgG

IMMUNOGEN: A methylated peptide sequence targeting residues around Lysine 12 of human Histone H2B

MOLECULAR WEIGHT: 14 kDa

PURIFICATION: Antigen Affinity purified

FORM: Liquid

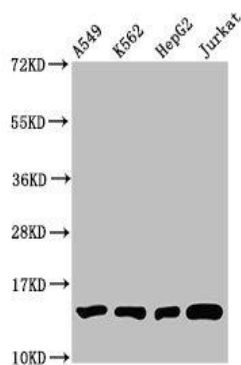
FORMULATION: In 0.01 M PBS, 50% glycerol, 0.03% proclin 300, pH 7.4

SPECIES REACTIVITY: Human

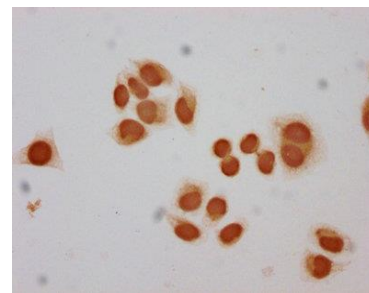
STORAGE CONDITIONS: Store at -20°C. Avoid freeze / thaw cycles

APPLICATIONS AND USAGE: WB 1:100-1:1000, ICC 1:20-1:200

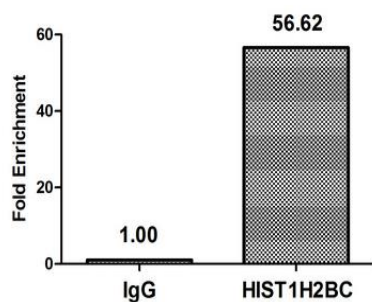
Note: This information is only intended as a guide. The optimal dilutions must be determined by the user



Western Blot analysis of H2BK12me1 expression in A549, K562, HepG2, and Jurkat whole cell lysate. Primary antibody dilution used was 1:100. Goat anti-rabbit IgG was used as secondary antibody at 1:50,000 dilution.



Immunocytochemistry analysis of H2BK12me1 staining in HeLa cells. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked with 10% goat serum for 30 min at RT, and then incubated with primary antibody (1:30 dilution) at 4°C overnight. Detection was performed with biotinylated secondary antibody and visualized using an HRP conjugated SP system.



ChIP analysis using Anti-H2BK12me1 antibody. HeLa cells were treated with Micrococcal Nuclease, sonicated, and immunoprecipitated with 5 μ g Anti-H2BK12me1 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:

Anti-Histone H2B Rabbit Monoclonal Antibody (A1144)
H3K9me3 polyclonal antibody (6873)
H3K27me3 polyclonal antibody (6870)
Acetyl-Histone H2B Antibody (3654)

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