Anti-H2BK20me1 Antibody

02/20

CATALOG NO.: **A2058-100 (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: Methylated peptide sequence targeting residues around Lysine 20 of human Histone H2B

MOLECULAR WEIGHT: 14 kDa

PURIFICATION: Antigen Affinity purified

FORM: Liquid

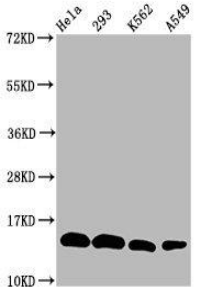
FORMULATION: In 0.01 M PBS, 50% glycerol, 0.03% proclin 300, pH 7.4

SPECIES REACTIVITY: Human

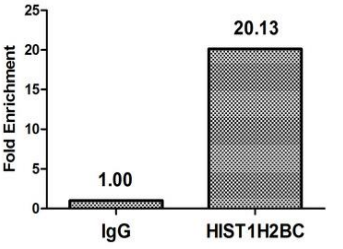
STORAGE CONDITIONS: Store at -20ºC. Avoid freeze / thaw cycles

APPLICATIONS AND USAGE: WB 1:100-1:1000

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



Western Blot analysis of HeLa, 293, K562, and A549 whole cell lysates using Anti-H2BK20me1 antibody at a dilution of 1:100. Goat polyclonal to rabbit IgG was used as secondary antibody at 1:50,000 dilution.



ChIP analysis of HeLa cells ($4x10^6$) that were treated with Micrococcal Nuclease, sonicated, and immunoprecipitated with 5 µg Anti-H2BK20me1 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:

Histone H2B Antibody (3622)
Anti-H4R3me2(sym) Antibody (A2024)
Anti-H3R8me2(asym) Antibody (A2047)
Anti-H2BK12me1 Antibody (A2048)