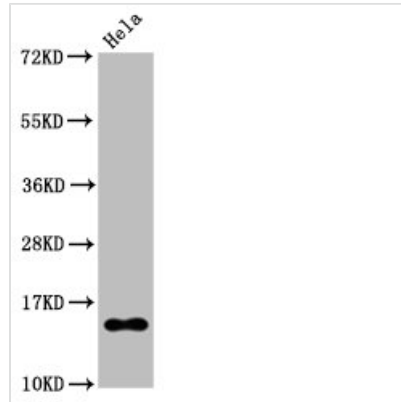




Acetyl-Histone H2B type 1-B?K20?Antibody

| | |
|----------------------------|--|
| Product Code | CSB-RA010402A20acHU |
| Abbreviation | Histone H2B type 1-B |
| Storage | Upon receipt, store at -20°C or -80°C. Avoid repeated freeze. |
| Uniprot No. | P33778 |
| Immunogen | A synthesized peptide |
| Species Reactivity | Human, Mouse |
| Tested Applications | ELISA, WB, ICC, IF, FC; Recommended dilution: WB:1:5000-1:10000, ICC:1:50-1:500, IF:1:30-1:200 |
| Relevance | 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. |
| Form | Liquid |
| Conjugate | Non-conjugated |
| Storage Buffer | Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| Purification Method | Affinity-chromatography |
| Isotype | Rabbit IgG |
| Clonality | Monoclonal |
| Alias | Histone H2B type 1-B, Histone H2B.1, Histone H2B.f, H2B/f, HIST1H2BB, H2BFF |
| Immunogen Species | Homo sapiens (Human) |
| Research Area | Epigenetics and Nuclear Signaling |
| Gene Names | HIST1H2BB |
| Accession NO. | 21F11 |

Image


Western Blot

Positive WB detected in HeLa whole cell lysate treated by 15mM sodium butyrate for 30min

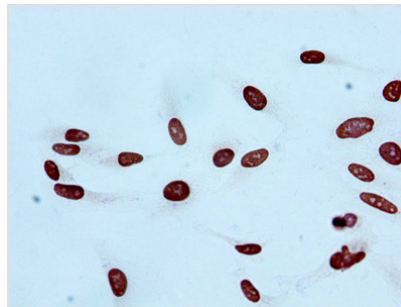
All lanes Acetyl-Histone H2B type 1-B(K20)antibody at 0.135 μ g/ml

Secondary

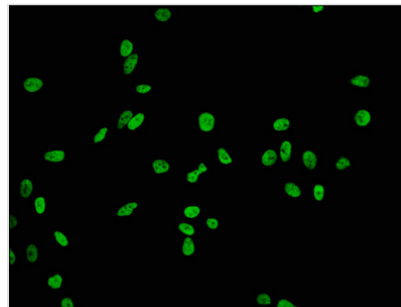
Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 15 KDa

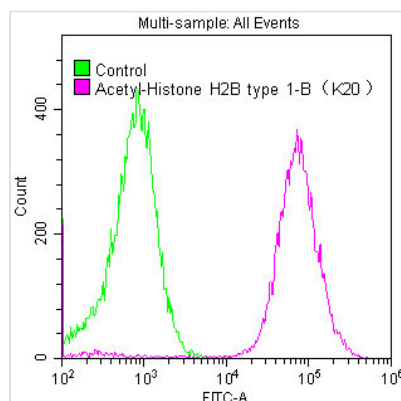
Observed band size: 15 KDa



Immunocytochemistry analysis of CSB-RA010402A20acHU diluted at 1:100 and staining in HeLa cells performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



Immunofluorescence staining of HeLa cells (treated by 15mM sodium butyrate for 30min) with CSB-RA010402A20acHU at 1:84, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).



Overlay histogram showing HeLa cells stained with CSB-RA010402A20acHU (red line) at 1:50. The cells were fixed with 70% Ethylalcohol (18h) and then permeabilized with 0.3% Triton X-100 for 2 min. The cells were then incubated in 1x PBS /10% normal goat serum to block non-specific protein-protein interactions followed by primary antibody for 1 h at 4°C. The secondary antibody used was FITC goat anti-rabbit IgG (H+L) at 1/200 dilution for 1 h at 4°C. Control antibody (green line) was used under the same conditions. Acquisition of >10,000 events was performed.

Description

The acetyl-Histone H2B type 1-B/HIST1H2BB (K20) recombinant monoclonal antibody is a highly specific antibody against the acetylated HIST1H2BB at K20 from human and mouse sources. This acetyl-HIST1H2BB (K20) antibody was expressed by transfecting the human acetyl-HIST1H2BB (K20) monoclonal antibody gene-vector clones into the cell line for in vitro production and



subsequent purification from the tissue culture supernatant (TCS) through affinity-chromatography. Its isotype matches with the rabbit IgG. This acetyl-HIST1H2BB (K20) antibody can be used in ELISA, WB, ICC, IF, and FC applications.

HIST1H2BB is a subtype of histone core component H2B. Antibodies against the HIST1H2BB are useful for the localization and detection of the HIST1H2BB of acetylation at Lys20 residue.