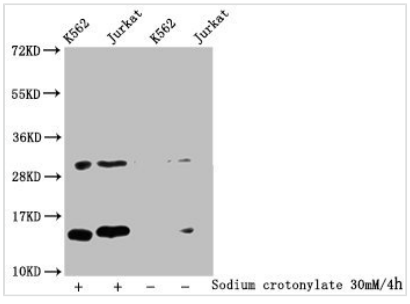
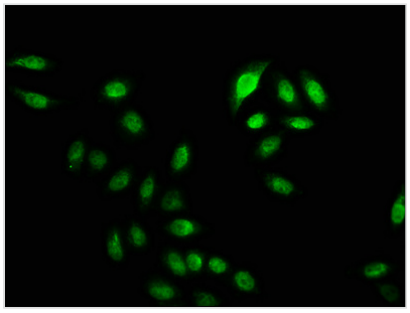
Crotonyl-HIST1H2BC (K20) Antibody

Product Code	CSB-PA010403OA20crHU
Abbreviation	Histone H2B type 1-C/E/F/G/I
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P62807
Immunogen	Peptide sequence around site of Crotonyl-Lys (20) derived from Human Histone H2B type 1-C/E/F/G/I
Raised In	Rabbit
Species Reactivity	Human
Tested Applications	ELISA, WB, IF, ChIP; Recommended dilution: WB:1:100-1:1000, IF:1:10-1:100
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	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, pH 7.4
Purification Method	Antigen Affinity Purified
Isotype	IgG
Clonality	Polyclonal
Alias	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
Species	Homo sapiens (Human)
Research Area	Epigenetics and Nuclear Signaling
Target Names	HIST1H2BC

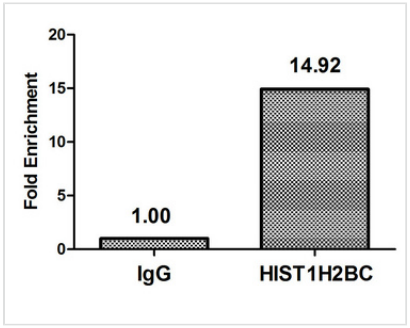
Image



Western Blot
Detected samples: K562 whole cell lysate, Jurkat whole cell lysate; Untreated (-) or treated (+) with 30mM Sodium crotonylate for 4h
All lanes: HIST1H2BC antibody at 1:100
Secondary
Goat polyclonal to rabbit IgG at 1/50000 dilution
Predicted band size: 14 kDa
Observed band size: 14 kDa



Immunofluorescence staining of Hela cells (treated with 30mM sodium crotonylate for 4h) with CSB-PA010403OA20crHU at 1:12.5, 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-congugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Chromatin Immunoprecipitation Hela (10^6, treated with 30mM sodium crotonylate for 4h) were treated with Micrococcal Nuclease, sonicated, and immunoprecipitated with 5µg anti-HIST1H2BC (CSB-PA010403OA20crHU) or a control normal rabbit IgG. The resulting ChIP DNA was quantified using real-time PCR with primers against the β-Globin promoter.