

Rabbit anti-Human, Mouse Histone H2B Polyclonal Antibody | anti-HIST1H2BC antibody

Histone H2B Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321274	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry

PRODUCT SYNONYMS

Histone H2B; Polyclonal Antibody; Histone H2B Antibody; dJ221C16.8; H2B histone family; member A; H2B/a; H2B/g; H2B/h; H2B/k; H2B/l; H2B1C_HUMAN; H2BFA; HIST1H2BI; Histone 1; H2bg; Histone cluster 1 H2B family member g; Histone cluster 1; Histone H2B type 1-C/E/F/G/I; Histone H2B.1 A; Histone H2B.a; Histone H2B.g; Histone H2B.h; Histone H2B.k; Histone H2B.l; H2B histone family member R; H2B/r; H2B1J_HUMAN; H2BFR; HIST1H2BJ; Histone 1 H2bj; Histone cluster 1 H2bj; Histone H2B type 1-J; Histone H2B.1; Histone H2B.r; GL105; H2B; H2B histone family member Q; H2B-GL105; H2B.1; H2B/q; H2B2E_HUMAN; H2BFQ; H2BGL105; H2BQ; HIST2H2BE; Histone 2 H2be; histone cluster 2; H2be; histone H2B GL105; histone H2B type 2 E; Histone H2B type 2-E; histone H2B type 2E; Histone H2B-GL105; Histone H2B.q; histone H2BGL105; H2B K; H2B type 12; H2B/b; H2B/c; H2B/d; H2B/e; H2B/f; H2B/j; H2B/n; H2B/s; HIRA-interacting protein 1; HIRA-interacting protein 2; Histone H2B type 1-B; Histone H2B type 1-D; Histone H2B type 1-H; Histone H2B type 1-K; Histone H2B type 1-L; Histone H2B type 1-M; Histone H2B type 1-N; Histone H2B type 1-O; Histone H2B type 2-F; Histone H2B type 3-B; Histone H2B type F-S; Histone H2B.1 B; Histone H2B.2; Histone H2B.b; Histone H2B.c; Histone H2B.d; Histone H2B.e; Histone H2B.f; Histone H2B.j; Histone H2B.n; Histone H2B.s; anti-HIST1H2BC antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	Histone H2B antibody detects endogenous levels of Histone H2B
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	126
Applicable Applications for anti-HIST1H2BC antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry)
Immunogen	A synthesized peptide derived from human Histone H2B
Subcellular Location	Nucleus. Chromosome.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohiostchemistry)
AAA321274 at 1/100 staining human Breast tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IF (Immunofluorescence)
AAA321274 staining HeLa cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-HIST1H2BC antibody	Function: 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. Subunit Structure: The nucleosome is a histone octamer containing two molecules each of H2A, H2B, H3 and H4 assembled in one H3-H4 heterotetramer and two H2A-H2B heterodimers. The octamer wraps approximately 147 bp of DNA. Post-translational Modifications: Monoubiquitination at Lys-35 (H2BK34Ub) by the MSL1/MSL2 dimer is required for histone H3 'Lys-4' (H3K4me) and 'Lys-79' (H3K79me) methylation and transcription activation at specific gene loci, such as HOXA9 and MEIS1 loci. Similarly, monoubiquitination at Lys-121 (H2BK120Ub) by the RNF20/40 complex gives a specific tag for epigenetic transcriptional activation and is also prerequisite for histone H3 'Lys-4' and 'Lys-79' methylation. It also functions cooperatively with the FACT dimer to stimulate elongation by RNA polymerase II. H2BK120Ub also acts as a regulator of mRNA splicing: deubiquitination by USP49 is required for efficient cotranscriptional splicing of a large set of exons. Phosphorylation at Ser-37 (H2BS36ph) by AMPK in response to stress promotes transcription (By similarity). Phosphorylated on Ser-15 (H2BS14ph) by STK4/MST1 during apoptosis; which facilitates apoptotic chromatin condensation. Also phosphorylated on Ser-15 in response to DNA double strand breaks (DSBs), and in correlation with somatic hypermutation and immunoglobulin class-switch recombination. GlcNAcylation at Ser-113 promotes monoubiquitination of Lys-121. It fluctuates in response to extracellular glucose, and associates with transcribed genes. Crotonylation (Kcr) is specifically present in male germ cells and marks testis-specific genes in post-meiotic cells, including X-linked genes that escape sex chromosome inactivation in haploid cells. Crotonylation marks active promoters and enhancers and confers resistance to transcriptional repressors. It is also associated with post-meiotically activated genes on autosomes. Similarity: Belongs to the histone H2B family.
--	--

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504257
NCBI GeneID	8339
NCBI Accession #	NP_003509.1
NCBI GenBank Nucleotide #	NM_003518.3
UniProt Accession #	P62807; P02278; Q3B872; Q4VB69; Q93078; Q93080
Molecular Weight	Observed: 14 kDa Predicted: 14 kDa
NCBI Official Full Name	histone H2B type 1-C/E/F/G/I
NCBI Official Synonym Full Names	histone cluster 1 H2B family member g
NCBI Official Symbol	HIST1H2BG
NCBI Official Synonym Symbols	H2B/a; H2BFA; H2B.1A; dJ221C16.8
NCBI Protein Information	histone H2B type 1-C/E/F/G/I
UniProt Protein Name	Histone H2B type 1-C/E/F/G/I

UniProt Gene Name	HIST1H2BC
UniProt Synonym Gene Names	H2BFL; H2B/a; H2B/g; H2B/h; H2B/k; H2B/l

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/histone-h2b-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-elisa/321274>