

Rabbit Histone H2B Polyclonal Antibody | anti-H2B antibody

Histone H2B (C-terminus) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA71647	Rabbit	Human, Rat, Mouse, Fish	Immunocytochemistry, ELISA, Western Blot

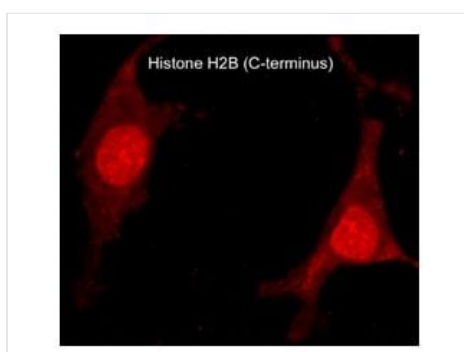
PRODUCT SYNONYMS

Histone H2B; Polyclonal Antibody; Histone H2B (C-terminus) Antibody; Histone H2B (C-terminus); anti-H2B antibody

PRODUCT SPECIFICATIONS

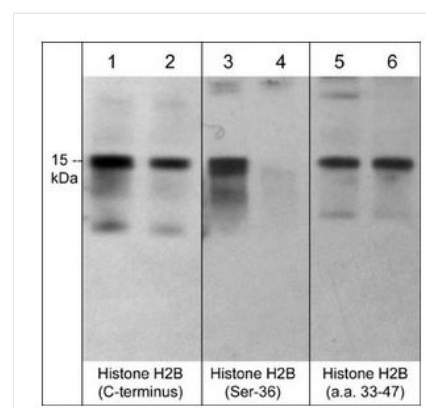
Host	Rabbit
Reactivity	Human, Rat, Mouse, Fish
Clonality	Polyclonal
Specificity	The antibody detects a 15kDa* protein corresponding to the molecular mass of Histone H2B on SDS-PAGE immunoblots of human A431, Jurkat, HeLa, mouse C2C12, rat PC12, and A7r5 cells. The antibody also shows nuclear labeling in immunocytochemistry of methanol/acetone fixed cells.
Form/Format	Rabbit polyclonal, affinity-purified antibody is supplied in 100ul phosphate-buffered saline, 50% glycerol, 1mg/ml BSA, and 0.05% sodium azide.
Applicable Applications for anti-H2B antibody	ICC (Immunocytochemistry), ELISA, WB (Western Blot)
Immunogen	Histone H2B synthetic peptide (coupled to carrier protein) corresponds to amino acids in the C-terminus of human histone H2B. This sequence is well conserved in rat, mouse, fish, and drosophila histone H2B, and has low homology to other histone family members.
Preparation and Storage	Store at -20 degree C. Stable for 1 year.

IMAGES



ICC (Immunocytochemistry)

Immunocytochemical labeling of Histone H2B in methanol and acetone fixed rat A7r5 cells. The cells were labeled with rabbit polyclonal Histone H2B (C-terminus) antibody (HP4291), then the antibody was detected using appropriate secondary antibody conjugated to DyLight 594.



WB (Western Blot)

Western blot analysis of human Jurkat cells treated with calyculin A (100nM) for 30 min. (lanes 1, 3, & 5) then the blots were treated with lambda phosphatase (lanes 2, 4, & 6). The blots were probed with anti-Histone H2B (C-terminus) (lanes 1 & 2), anti-Histone H2B (Ser-36) (lanes 3 & 4), and anti-Histone H2B (a.a. 33-47) (lanes 5 & 6).

ADDITIONAL INFORMATION

Related Product Information for anti-H2B antibody	The nucleosome is a protein complex consisting of four core histones (H2A, H2B, H3, and H4). Two molecules of each histone forms an octamer that makes up the nucleosome. DNA wraps around repeating nucleosome units to generate chromatin structures. The structure of chromatin determines the accessibility to transcription factors. Post-translational modification of the amino-terminal tail of histones in nucleosomes alters chromatin structure to promote or inhibit transcription. Complex alterations in acetylation, methylation, ubiquitination, and/or phosphorylation determine the chromatin structural changes that occur during specific phases of the cell cycle or in response to cell stimuli. One mode of regulating histone H2B activity is through phosphorylation in the amino terminal region. Important sites of phosphorylation include Ser-14, Ser-32, and Ser-36. AMPK phosphorylates Ser-36 on histone H2B during cell stress leading to increased transcription and cell survival, while ectopic expression of an unphosphorylatable histone H2B during cell stress reduces transcription of AMPK-dependent genes and lowers cell survival.
References	Lau, A.T. et al. (2011) J Biol Chem. 286(30):26628. Ajiro, K. et al. (2010) Cell Death Differ. 17(6):984. Bungard, D. et al. (2010) Science. 329(5996):1201. Workman, J.L. & Kingston, R.E. (1998) Annu Rev Biochem. 67:545.

NCBI AND UNIPROT INFORMATION

NCBI GI #	10800140
NCBI GeneID	3018
NCBI Accession #	NP_066406.1
NCBI GenBank Nucleotide #	NM_021062.2
UniProt Accession #	P33778; Q4KN36
Molecular Weight	13,950 Da
NCBI Official Full Name	histone H2B type 1-B
NCBI Official Synonym Full Names	histone cluster 1, H2bb
NCBI Official Symbol	HIST1H2BB
NCBI Official Synonym Symbols	H2B.1; H2B/f; H2BFF
NCBI Protein Information	histone H2B type 1-B; H2B histone family, member F; histone 1, H2bb; histone H2B.1; histone H2B.f
UniProt Protein Name	Histone H2B type 1-B
UniProt Gene Name	HIST1H2BB
UniProt Synonym Gene Names	H2BFF; H2B/f
UniProt Entry Name	H2B1B_HUMAN

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/histone-h2b-antibody-immunocytochemistry-western-blot-elisa/71647>