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Anti-Histone H2B Antibody

Catalog # AP51253

Product Information

Application	WB, IHC, CHIP, IF/IC
Primary Accession	P57053
Reactivity	Human, Mouse, Zebrafish, Chicken, Bovine, Mk
Host	Rabbit
Clonality	Polyclonal
Calculated MW	13944

Additional Information

Gene ID	54145
Other Names	Histone H2B type F-S; Histone H2B.s; H2B/s
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human Histone H2B. The exact sequence is proprietary.
Dilution	WB~~ 1:1000 IHC~~1:100~500 CHIP~~N/A IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

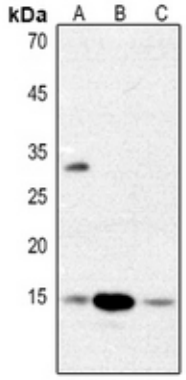
Name	H2BC12L (HGNC:4762)
Function	Core component of nucleosome. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling.
Cellular Location	Nucleus. Chromosome.

References

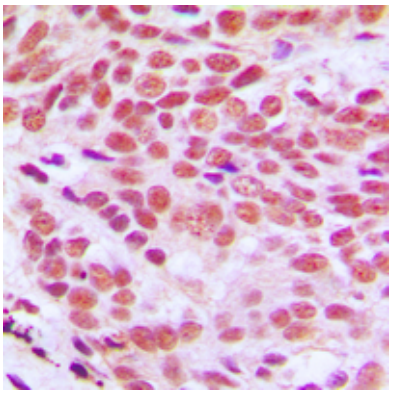
Shimizu N.,et al.Submitted (APR-2000) to the EMBL/GenBank/DDBJ databases.
Hattori M.,et al.Nature 405:311-319(2000).
Kim H.S.,et al.J. Immunol. 168:2356-2364(2002).

Frohm M.,et al.Eur. J. Biochem. 237:86-92(1996).
Tollin M.,et al.Peptides 24:523-530(2003).

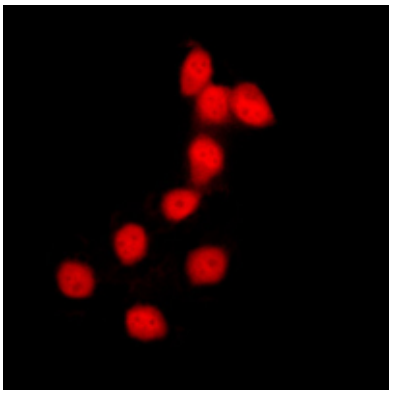
Images



Western blot analysis of Histone H2B expression in HEK293T (A), Hela (B), H1688 (C) whole cell lysates. (Predicted band size: 13 kD; Observed band size: 14 kD)



Immunohistochemical analysis of Histone H2B staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of Histone H2B staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.