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# HIST1H2BJ Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10727c

## Product Information

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| **Application** | IHC-P, FC, WB, E |
| **Primary Accession** | P06899 |
| **Other Accession** | Q9PSW9, P0C1H5, P0C1H4, Q6PC60, Q5QNW6, Q16778, Q6DRA6, Q6DN03, Q64525, Q5BJA5, P0C1H3, P62808, P23527, Q99877, Q32L48, P10854, Q99879, Q2PFX4, O60814, Q2M2T1, Q64478, Q93079, P58876, Q6ZWY9, P62807, P33778, Q00729, P06900, P02281, NP_066402.2 |
| **Reactivity** | Human |
| **Predicted** | Xenopus, Rat, Mouse, Bovine, Monkey, Chicken, Zebrafish |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB28555 |
| **Calculated MW** | 13904 |
| **Antigen Region** | 57-86 |

## Additional Information

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| **Gene ID** | 8970 |
| **Other Names** | Histone H2B type 1-J, Histone H2B1, Histone H2Br, H2B/r, HIST1H2BJ, H2BFR |
| **Target/Specificity** | This HIST1H2B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 57-86 amino acids from the Central region of human HIST1H2BJ. |
| **Dilution** | IHC-P~~1:100~500 FC~~1:10~50 WB~~1:1000 E~~Use at an assay dependent concentration. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | HIST1H2BJ Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | H2BC11 ( HGNC:4761) |

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| **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. |

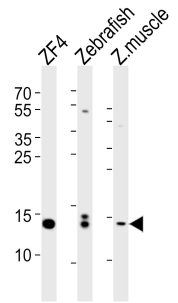
## Background

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, and H4) form an octamer, around which approximately 146 bp of DNA is wrapped in repeating units, called nucleosomes. The linker histone, H1, interacts with linker DNA between nucleosomes and functions in the compaction of chromatin into higher order structures. This gene is intronless and encodes a member of the histone H2B family. Transcripts from this gene lack polyA tails but instead contain a palindromic termination element. This gene is found in the histone microcluster on chromosome 6p21.33. [provided by RefSeq].

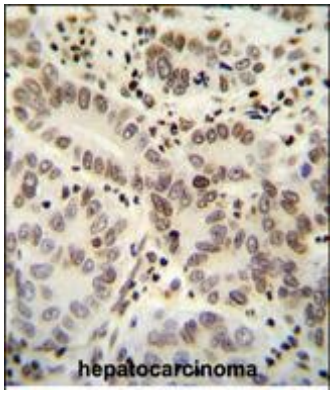
## References


Shi, J., et al. Nature 460(7256):753-757(2009)
Benyamin, B., et al. Am. J. Hum. Genet. 84(1):60-65(2009)
Kim, S.C., et al. Mol. Cell 23(4):607-618(2006)
Beck, H.C., et al. Mol. Cell Proteomics 5(7):1314-1325(2006)
Pavri, R., et al. Cell 125(4):703-717(2006)


## Images

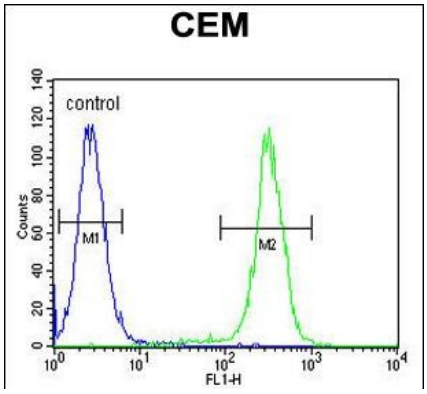



Western blot analysis of lysates from ZF4 cell line, Zebrafish, zebra fish muscle tissue lysate(from left to right), using HIST1H2BJ Antibody (Center)(Cat. #AP10727c). AP10727c was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35ug per lane.

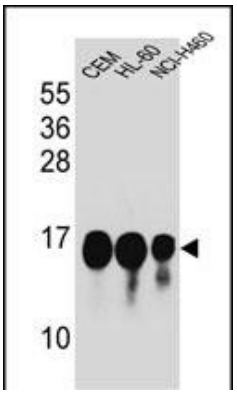



HIST1H2BJ antibody (Center) (Cat. #AP10727c) immunohistochemistry analysis in formalin fixed and paraffin embedded human hepatocarcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the HIST1H2BJ antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

HIST1H2BJ Antibody (Center) (Cat. #AP10727c) flow




cytometric analysis of CEM cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.




HIST1H2BJ Antibody (Center) (Cat. #AP10727c) western blot analysis in CEM,HL-60,NCI-H460 cell line lysates (35ug/lane).This demonstrates the HIST1H2BJ antibody detected the HIST1H2BJ protein (arrow).

## Citations

- Distinct Motion of GFP-Tagged Histone Expressing Cells Under AC Electrokinetics in Electrode-Multilayered Microfluidic Device.