

# Anti-Histone H2B (Acetyl-K125) Antibody

Catalog # AP61493

## Product Information

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|-------------------|-------------------------------------------------|
| Application       | WB                                              |
| Primary Accession | <a href="#">Q96A08</a>                          |
| Other Accession   | <a href="#">P33778</a> , <a href="#">P62807</a> |
| Reactivity        | Human, Mouse, Rat, Zebrafish, Chicken, Bovine   |
| Host              | Rabbit                                          |
| Clonality         | Polyclonal                                      |
| Calculated MW     | 14167                                           |

## Additional Information

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| Gene ID            | 255626                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Other Names        | HIST1H2BA; TSH2B; Histone H2B type 1-A; Histone H2B testis; Testis-specific histone H2B; HIST1H2BB; H2BFF; Histone H2B type 1-B; Histone H2B.1; Histone H2B.f; H2B/f; HIST1H2BC; H2BFL; HIST1H2BE; H2BFH; HIST1H2BF; H2BFG; HIST1H2BG; H2BFA; HIST1H2BI; H2BFK; 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 |
| Target/Specificity | KLH-conjugated synthetic acetylated peptide corresponding to residues surrounding K125 of human Histone H2B protein. The exact sequence is proprietary.                                                                                                                                                                                                                                                                     |
| Dilution           | WB~~WB (1/500 - 1/1000)                                                                                                                                                                                                                                                                                                                                                                                                     |
| 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

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| Name     | H2BC1 ( <a href="#">HGNC:18730</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Function | Variant histone specifically required to direct the transformation of dissociating nucleosomes to protamine in male germ cells (By similarity). Entirely replaces classical histone H2B prior nucleosome to protamine transition and probably acts as a nucleosome dissociating factor that creates a more dynamic chromatin, facilitating the large-scale exchange of histones (By similarity). Core component of nucleosome (By similarity). Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template (By similarity). Histones thereby play a central role in transcription regulation, DNA repair, DNA |

replication and chromosomal stability (By similarity). DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling (By similarity). Also found in fat cells, its function and the presence of post-translational modifications specific to such cells are still unclear (PubMed:[21249133](#)).

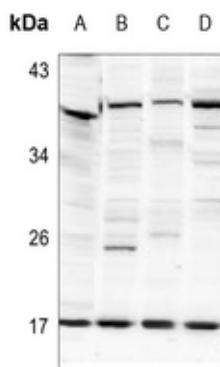
#### Cellular Location

Nucleus {ECO:0000250|UniProtKB:P70696}. Chromosome {ECO:0000250|UniProtKB:P70696}

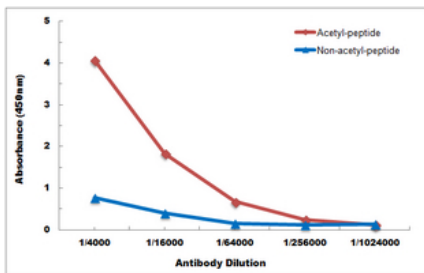
#### Tissue Location

Mainly expressed in testis, and the corresponding protein is also present in mature sperm (at protein level). Also found in some fat cells.

## Images



Western blot analysis of Histone H2B (Acetyl-K125) expression in SP20 (A), SHSY5Y (B), C6 (C), PC3 (D) whole cell lysates. (Predicted band size: 14; 13 kD; Observed band size: 17 kD)



Direct ELISA antibody dose-response curve using Anti-Histone H2B (Acetyl-K125) Antibody. Antigen (Acetyl-peptide and non-acetyl-peptide) concentration is 5 ug/ml. Goat Anti-Rabbit IgG (H&L) - HRP was used as the secondary antibody, and signal was developed by TMB substrate.

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