

**DATASHEET**
**Histone H2B Rabbit Polyclonal Antibody**
**CAT. NO. APA11488**
**KEY FEATURES**

|               |   |               |                     |
|---------------|---|---------------|---------------------|
| Target        | Histone H2B   | Source / Host | Rabbit              |
| Reactivity    | Human, Mouse, Rat, Bovine   | Clonality     | Polyclonal          |
| Applications  | WB  | Conjugation   | Unconjugated        |
| Form / Buffer | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide. |               | Storage<br>at -20°C |

**BACKGROUND**

Variant histone specifically required to direct the transformation of dissociating nucleosomes to protamine in male germ cells . 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 . 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 .

**APPLICATION**

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

|    |                |
|----|----------------|
| WB | 1:500 - 1:1000 |
|----|----------------|

\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

**PRODUCT OVERVIEW**

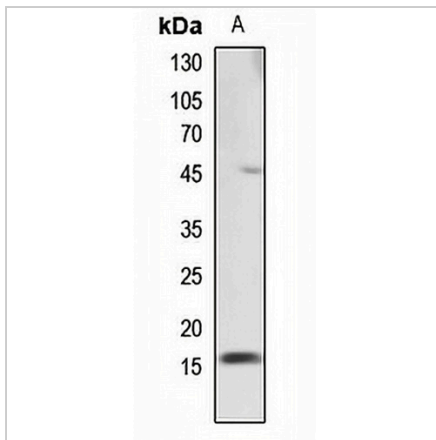
|                   |   |
|-------------------|---|
| Description       | Rabbit polyclonal antibody to Histone H2B   |
| Specificity       | Recognizes endogenous levels of Histone H2B protein.  |
| Antibody Type     | Primary antibody  |
| Immunogen         | KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human Histone H2B. The exact sequence is proprietary.  |
| Purification      | The antibody was purified by immunogen affinity chromatography.   |
| Molecular Weight  | Predicted: 14; Observed: 14 kD  |
| Form/Buffer       | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.   |
| Alternative 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 |
| Gene Symbol       | HIST1H2BC   |
| Entrez Gene       | 255626; 3018; 3017; 8339; 8343; 8344; 8346; 8347(Human); 319177; 319178; 319179(Mouse); 24829(Rat)  |
| SwissProt         | Q96A08; P33778; P62807(Human); P70696; Q64475; Q6ZWY9(Mouse); Q00729(Rat)   |

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\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

**DATASHEET****Histone H2B Rabbit Polyclonal Antibody**

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**DATA**

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

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.