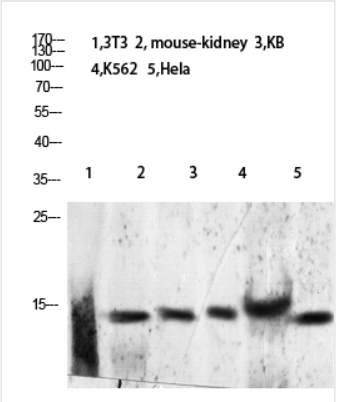
# H2B Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | H2B, Polyclonal Antibody |
| **Full Product Name** | Histone H2B (Acetyl-Lys24/25) Polyclonal Antibody |
| **Product Gene Name** | anti-H2B antibody |
| **Product Synonym Names** | Histone H2B (Acetyl-Lys24/25) |
| **Clonality** | Polyclonal |
| **Host** | Rabbit |
| **Species Reactivity** | Human, Mouse, Rat |
| **Form/Format** | PBS, pH 7.4, containing 0.02% sodium azide as Preservative and 50% Glycerol. |
| **Purity/Purification** | Affinity-purified from rabbit serum by affinity-chromatography using specific immunogen. |
| **Concentration** | 1 mg/ml (lot specific) |
| **Specificity** | The antibody detects endogenous Histone H2B when Acetyl occurs at Lys24 or 25) |
| **Preparation and Storage** | Store at -20 degree C |
| **Molecular Weight** | 15 kDa |
| **OMIM** | AF397301 Genomic DNA |
| **3D Structure** | ModBase 3D Structure for Q96A08 |
| **Immunogen** | Synthetic Acetyl peptide from human protein at AA range: 24/25 |
| **Immunogen Type** | Protein |
| **Product Categories/Family for anti-H2B antibody** | Acetyl-specific Ab |
| **Applications Tested/Suitable for anti-H2B antibody** | Western Blot (WB) |
| **Application Notes for anti-H2B antibody** | WB: 1:500-1:2000 |
| **Related Product Information for anti-H2B antibody** | MBS9428955 is an antibody targeting H2B. Also known as Histone H2B (Acetyl-Lys24/25) Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit. |
| **Other Notes** | Small volumes of anti-H2B antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |




**Western Blot (WB) of anti-H2B antibody**
Western blot analysis of K562 mouse-lung lysate, antibody was diluted at 2000. Secondary antibody was diluted at 1:20000

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for H2B. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 24586679 |
| **NCBI GeneID** | 255626 |
| **NCBI Accession #** | NP_733759.1 |
| **UniProt Primary Accession #** | Q96A08 |
| **UniProt Secondary Accession #** | Q6NZ98; Q6NZA0; Q6NZA1; B2R544 |
| **UniProt Related Accession #** | Q96A08 |
| **GenBank Nucleotide #** | NM_170610.2 |
| **NCBI Official Full Name** | histone H2B type 1-A |
| **NCBI Official Synonym Full Names** | histone cluster 1 H2B family member a |
| **NCBI Official Symbol** | HIST1H2BA |
| **NCBI Official Synonym Symbols** | STBP; TH2B; H2BFU; TSH2B; TSH2B.1; bA317E16.3 |
| **UniProt Protein Name** | Histone H2B type 1-A |
| **UniProt Synonym Protein Names** | Histone H2B, testis |
| **Protein Family** | Histone |
| **UniProt Gene Name** | HIST1H2BA |
| **UniProt Synonym Gene Names** | ; TSH2B.1; hTSH2B |
| **NCBI Protein Information** | histone H2B type 1-A |
| **NCBI Summary for H2B** | Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures. This gene is intronless and encodes a replication-dependent histone that is a testis/sperm-specific member of the histone H2B family. Transcripts from this gene contain a palindromic termination element. [provided by RefSeq, Aug 2015] |

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| **UniProt Comments for H2B** | H2B1A: 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. The nucleosome is a histone octamer containing two molecules each of H2A, H2B, H3 and H4 assembled in one H3-H4 heterotetramer and two H2A-H2B heterodimers. The octamer wraps approximately 147 bp of DNA. Transcribed exclusively in testis, and the corresponding protein is also present in mature sperm. Belongs to the histone H2B family.<br><br>Protein type: DNA-binding<br><br>Chromosomal Location of Human Ortholog: 6p22.2<br><br>Cellular Component: nuclear chromosome, telomeric region; nucleoplasm; nucleosome; nucleus<br><br>Molecular Function: DNA binding<br><br>Biological Process: nucleosome assembly; nucleosome disassembly; protein ubiquitination; spermatogenesis, exchange of chromosomal proteins |
| **Research Articles on H2B** | **1.** Data indicate that lactate dehydrogenase A (LDHA) is involved in the transcription of histone 2B gene. |
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