

## Polyclonal Antibody to H2B (41-45) - Aff - Purified

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| <b>Alternate names:</b>  | GL105, H2BQ  |
| <b>Catalog No.:</b>      | AP26057PU-N  |
| <b>Quantity:</b>         | 0.1 ml   |
| <b>Concentration:</b>    | 1.0 mg/ml  |
| <b>Background:</b>       | 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. |
| <b>Host:</b>             | Rabbit   |
| <b>Immunogen:</b>        | Peptide sequence around amino acids 41~45 derived from Human H2B<br><b>AA Sequence:</b><br>Y-V-Y-K-V   |
| <b>Format:</b>           | <b>State:</b> Liquid purified Ig fraction<br><b>Purification:</b> Affinity Chromatography using epitope-specific peptide<br><b>Buffer System:</b> PBS (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4 containing 150mM NaCl, 0.02% Sodium Azide as preservative and 50% Glycerol as stabilizer  |
| <b>Applications:</b>     | <b>Western blot:</b> 1/500-1/1000.<br>Incubate membrane with diluted antibody in 5% nonfat milk, 1xTBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.<br>Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.   |
| <b>Specificity:</b>      | This antibody detects endogenous level of total H2B protein.<br><b>Species:</b> Human, Mouse, Rat.<br>Other species not tested.  |
| <b>Add. Information:</b> | Molecular Weight: 14 kDa   |
| <b>Storage:</b>          | Store the antibody (in aliquots) at -20°C.<br>Avoid repeated freezing and thawing.<br>Shelf life: one year from despatch.  |
| <b>General Readings:</b> | 1. Borchert GM, et al. (2010) PLoS One.5(7):e11641.<br>2. Pennini ME, et al. (2010) PLoS Pathog.6(7):e1000995.<br>3. Lu C, et al. (2010) Sci China Life Sci.53(6):663-8.   |

Pictures:

Western blot analysis of extracts from HeLa and 293 cells using H2B antibody AP26057PU-N.

