Product Name: Histone H2B (Acetyl Lys21) Rabbit Polyclonal Antibody
Catalog #: APRab06197

Summary

Production Name	Histone H2B (Acetyl Lys21) Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB
Reactivity	Human,Rat,Mouse

Performance

Conjugation	Unconjugated
Modification	Acetyl Antibody
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	Histone H2B
Alternative Names	H2BFS; Histone H2B type F-S; Histone H2B.s; H2B/s;H2BK21AC
Gene ID	255626.0
SwissProt ID	Q96A08/P33778/P62807.Synthetic Acetyl peptide from human protein at AA range: 21

Application

Dilution Ratio	WB 1:500-2000, ELISA 1:10000-20000
Molecular Weight	15kD

Background

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in

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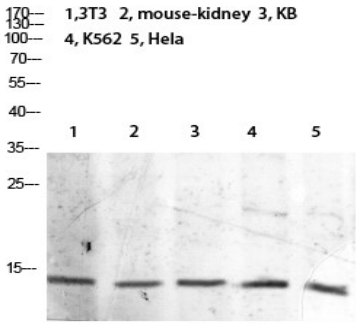
eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to 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],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.,PTM:Monoubiquitination of Lys-122 by the RNF20/40 complex gives a specific tag for epigenetic transcriptional activation and is also prerequisite for histone H3 'Lys-4' and 'Lys-79' methylation. It also functions cooperatively with the FACT dimer to stimulate elongation by RNA polymerase II.,similarity:Belongs to the histone H2B family.,subunit: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.,tissue specificity:Transcribed exclusively in testis, and the corresponding protein is also present in mature sperm.,

Research Area

Systemic lupus erythematosus;

Image Data



Western blot analysis of 3T3 mouse-kidney KB K562 Hela lysate, antibody was diluted at 2000. Secondary antibody was diluted at 1:20000

Note

For research use only.