

Histone H2B (Acetyl Lys21) Rabbit pAb

CatalogNo: YK0079

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, ELISA

MW

- 15kD (Observed)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-2000

ELISA 1:10000-20000

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthetic Acetyl peptide from human protein at AA range: 21

Specificity The antibody detects endogenous Histone H2B when Acetyl occurs at Lys21. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites): TkAQK

Target Information

Gene name Histone H2B

Protein Name Histone H2B

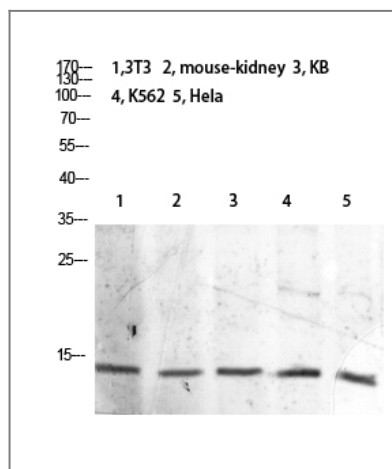
Organism	Gene ID	UniProt ID
Human	255626 ;	Q96A08 ; P33778 ; P62807 ;

Cellular Localization Nucleus . Chromosome .

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

Function 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.,

Validation Data



Western blot analysis of 3T3 mouse-kidney KB K562 HeLa lysate, antibody was diluted at 2000. Secondary antibody (catalog#:RS0002) was diluted at 1:20000

Contact information

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Lys21) Rabbit pAb**

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