

## Histone H2B (Di Methyl Lys5) Rabbit pAb

CatalogNo: YH0043

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB

#### MW

- 14kD (Observed)

#### Isotype

- IgG

### Storage

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

**Formulation** PBS, pH 7.4, containing 0.5% BSA, 0.02% sodium azide as Preservative and 50% Glycerol.

### Recommended Dilution Ratios

WB 1:500-1000

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** Synthetic Peptide of Histone H2B (Di Methyl Lys5)

**Specificity** The antibody detects endogenous Histone H2B (Di Methyl Lys5) protein.

### Target Information

**Gene name** HIST1H2BC

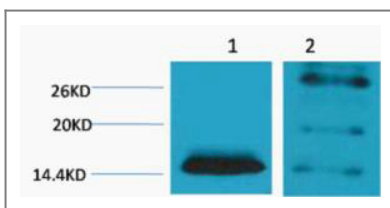
<b>Protein Name</b>	Histone H2B type 1-A/Histone H2B type 1-B/Histone H2B type 1-C/E/F/G/I		
<b>Organism</b>	<b>Gene ID</b>	<b>UniProt ID</b>	
Human	<a href="#">255626</a> ; <a href="#">3018</a> ; <a href="#">3017</a> ; <a href="#">8339</a> ; <a href="#">8343</a> ; <a href="#">8344</a> ; <a href="#">8346</a> ; <a href="#">8347</a> ;	<a href="#">Q96A08</a> ; <a href="#">P33778</a> ; <a href="#">P62807</a> ;	
Mouse	<a href="#">319177</a> ; <a href="#">319178</a> ; <a href="#">319179</a> ;		
Rat	<a href="#">24829</a> ;	<a href="#">Q00729</a> ;	

**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 1) HeLa, 2) 3T3, diluted at 1:2000. Secondary antibody (catalog#:RS0002) was diluted at 1:20000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Invent biotech, MN, USA).

## Contact information

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