Histone H2B (Mono Methyl Lys5) Mouse pAb

CatalogNo: YM3287

Key Features

Host Species
- Mouse

Reactivity
- Human,Mouse,Rat

Applications
- WB

MW
- 14kD (Observed)

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

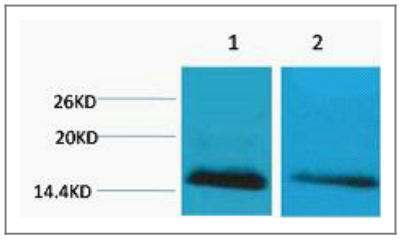
Immunogen	Synthetic Peptide of Histone H2B (Mono Methyl Lys5)
Specificity	The antibody detects endogenous Histone H2B (Mono Methyl Lys5) protein.

Target Information

Gene name HIST1H2BC

Protein Name	Histone H2B type 1-A/Histone H2B type 1-B/Histone H2B type 1-C/E/F/G/I		
	Organism	**Gene ID**	**UniProt ID**
	Human	255626; 3018; 3017; 8339; 8343; 8344; 8346; 8347;	Q96A08; P33778; P62807;
	Mouse	319177; 319178; 319179;	
	Rat	24829;	Q00729;
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,Inventbiotech,MN,USA).

Contact information

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