Histone H4 (Mono Methyl Arg3) Mouse pAb

CatalogNo: YM3322

Key Features

Host Species
- Mouse

Reactivity
- Human

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 1:1000-2000

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	Synthetic Peptide of Histone H4 (Mono Methyl Arg3)
Specificity	The antibody detects endogenous Histone H3 (Mono Methyl Arg3) protein.

Target Information

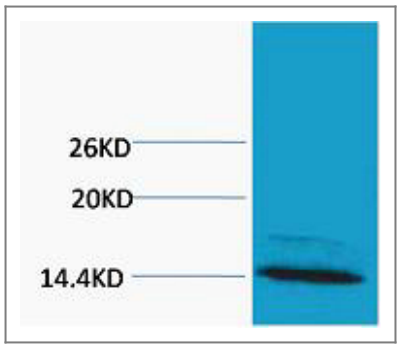
Gene name HIST1H4A/HIST1H4B/HIST1H4C/HIST1H4D/HIST1H4E/HIST1H4F/HIST1H4H/HIST1H4I/HIST1H4J/HIST1H4K/HIST1H4L/HIST2H4A/HIST2H4B/HIST4H4

Protein Name	Histone H4

Organism	Gene ID	UniProt ID
Human	121504; 554313; 8294; 8359; 8360; 8361; 8362; 8363; 8364; 8365; 8366; 8367; 8368; 8370;	P62805;
Mouse	100041230;	P62806;
Rat	100360950;	P62804;

Cellular Localization	Nucleus. Chromosome.
Tissue specificity	B-cell lymphoma ,Bone marrow ,Brain ,Clones donated by HIP ,Corpus call
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:Acetylation at Lys-6 , Lys-9 , Lys-13 and Lys-17 occurs in coding regions of the genome but not in heterochromatin. ,PTM:Citrullination at Arg-4 by PADI4 impairs methylation. ,PTM:Monomethylated , dimethylated or trimethylated at Lys-21. Monomethylation is performed by SET8. Trimethylation is performed by SUV420H1 and SUV420H2 and induces gene silencing. ,PTM:Monomethylation at Arg-4 by PRMT1 favors acetylation at Lys-9 and Lys-13. Demethylation is performed by JMJD6. ,PTM:Sumoylated , which is associated with transcriptional repression. ,PTM:Ubiquitinated by the CUL4-DDB-RBX1 complex in response to ultraviolet irradiation. This may weaken the interaction between histones and DNA and facilitate DNA accessibility to repair proteins. ,similarity:Belongs to the histone H4 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. ,

Validation Data



Western blot analysis of extracts from Hela cells, 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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