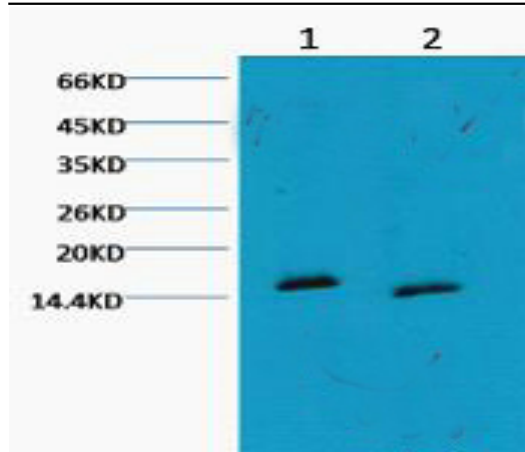


Histone H3 (Mono Methyl Lys79) Monoclonal Antibody(5G5)

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| Catalog No : | YM3093 |
| Reactivity : | Human;Mouse;Rat |
| Applications : | WB |
| Target : | Histone H3 |
| Fields : | >>Neutrophil extracellular trap formation;>>Alcoholism;>>Shigellosis;>>Transcriptional misregulation in cancer;>>Systemic lupus erythematosus |
| Gene Name : | HIST1H3A/HIST1H3B/HIST1H3C/HIST1H3D/HIST1H3E/HIST1H3F/HIST1H3G/HIST1H3H/HIST1H3I/HIST1H3J/HIST2H3A/HIST2H3C/HIST2H3D/H3F3A/H3F3B |
| Protein Name : | Histone H3.1/Histone H3.2/Histone H3.3 |
| Human Gene Id : | 8350/8351/8352/8353/8354/8355/8356/8357/8358/8968 |
| Human Swiss Prot No : | P68431/Q71DI3/P84243 |
| Mouse Gene Id : | 319152/15077/15078 |
| Rat Gene Id : | 291159/100361558 |
| Rat Swiss Prot No : | Q6LED0/P84245 |
| Immunogen : | Synthetic Peptide of Histone H3 (Mono Methyl Lys79) |
| Specificity : | The antibody detects endogenous Histone H3 (mono methyl K79) protein. |
| Formulation : | PBS, pH 7.4, containing 0.5%BSA, 0.02% sodium azide as Preservative and 50% Glycerol. |
| Source : | Monoclonal, Mouse |
| Dilution : | WB 1:500-2000 |

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| Purification : | The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen. |
| Storage Stability : | -15°C to -25°C/1 year(Do not lower than -25°C) |
| Observed Band : | 15kD |
| Cell Pathway : | Systemic lupus erythematosus; |
| Background : | Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. This structure consists of approximately 146 bp of DNA wrapped around a nucleosome, an 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 member of the histone H3 family. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element. This gene is found in the large histone gene cluster on chromosome 6p22-p21.3. [provided by RefSeq, Aug 2015], |
| Function : | caution:Was originally (PubMed:2587222) thought to originate from mouse.,developmental stage:Expressed during S phase, then expression strongly decreases as cell division slows down during the process of differentiation.,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.,mass spectrometry:Monoisotopic with N-acetylserine PubMed:16457589,miscellaneous:This histone is only present in mammals and is enriched in acetylation of Lys-15 and dimethylation of Lys-10 (H3K9me2).,PTM:Acetylation is generally I |
| Subcellular Location : | Nucleus. Chromosome. |
| Expression : | Blood,Epithelium,Kidney,Lung,Ovary,Spleen,Uterus, |

Products Images



Western blot analysis of HeLa, diluted at 1) 1:1000 2) 1:3000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Inventbiotech, MN, USA).