

Histone H4 (PT0151R) PT™ Rabbit mAb

CatalogNo: YM8088 **Recombinant** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF, IP, ELISA, CHIP, Cut&Tag

MW

- 11kD
(Calculated)
11kD (Observed)

Isotype

- IgG, Kappa

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)**Formulation** PBS, 50% glycerol, 0.05% Proclin 300, 0.05% BSA

Recommended Dilution Ratios

IHC 1:200-1000**WB 1:1000-5000****IF 1:200-1000****ELISA 1:5000-20000****IP 1:50-200****CHIP 1:50-1:100****Cut&Tag 1:50-1:100**

Basic Information

Clonality Monoclonal**Clone Number** PT0151R

Immunogen Information

Specificity Endogenous

Target Information

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

Protein Name Histone H4

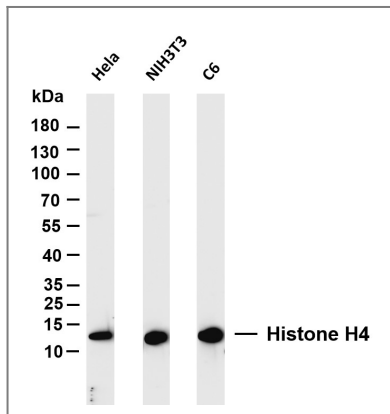
Organism	Gene ID	UniProt ID
Human	121504 ; 554313 ; 8294 ; 8359 ; 8360 ; 8361 ; 8362 ; 8363 ; 8364 ; 8365 ; 8366 ; 8367 ; 8368 ; 8370 ;	P62805 ;
Mouse	100041230 ;	P62806 ;
Rat	100360950 ;	P62804 ;

Cellular Localization Nucleus. Chromosome.

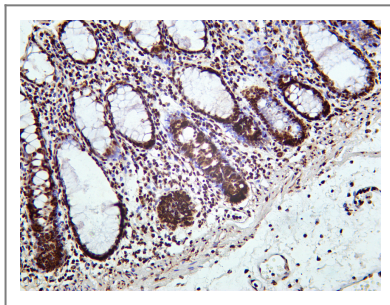
Tissue specificity B-cell lymphoma,Bone marrow,Brain,Clones donated by HIP,Corpus call

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.,

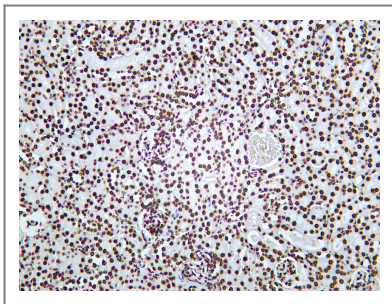
Validation Data



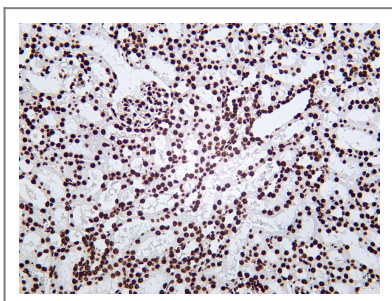
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Histone H4 antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: HeLa Lane 2: NIH3T3 Lane 3: C6 Predicted band size: 11kDa Observed band size: 11kDa



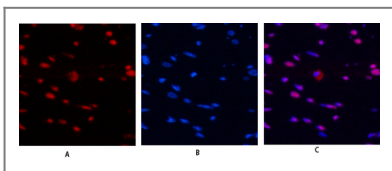
Human colon was stained with Anti-Histone H4 rabbit antibody



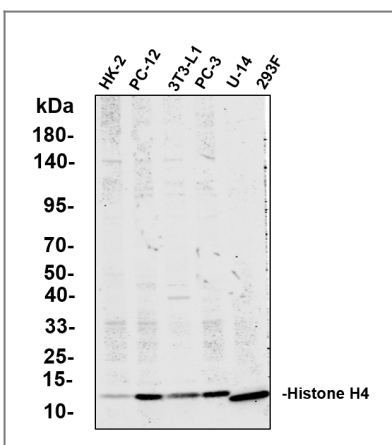
Mouse kidney was stained with Anti-Histone H4 rabbit antibody



Rat kidney was stained with Anti-Histone H4 rabbit antibody



Immunofluorescence analysis of rat-heart tissue. 1, Histone H4 Antibody (red) was diluted at 1:200 (4° overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50min). 3, Picture B: DAPI (blue) 10min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the primary antibody was used at 4°C, over night with a 1:2500 dilution. The Dylight 800-conjugated Goat anti-Rabbit antibody (Cat:RS23920) was used to detect the antibody. Lane1: HK-2 - Human proximal tubular epithelial Lane2: PC-12 - Rat adrenal pheochromocytoma Lane3: 3T3-L1 - Mouse embryonic fibroblast Lane4: PC-3 - Human prostate adenocarcinoma Lane5: U-14 - Mouse cervical carcinoma Lane6: 293F - HEK293 derivative, adapted for suspension culture Predicted band size: 11kDa Observed band size: 11kDa

Contact information

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