



Mouse Monoclonal Antibody **Histone H4** conjugated to Sepharose Beads

CatalogNo: **ANT8088-M**

Size 200ul

Storage Store at 4 °C for frequent use

#### Description

This Antagene antibody is immobilized by the covalent reaction of hydrazinonicotinamide-modified antibody with formylbenzamide-modified beads. It is useful for immunoprecipitation.

#### **Histone H4 (ANT0051R) Rabbit mAb**

Formulation: Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg ANaN3.

#### Host Species

- Rabbit
- Human, Mouse, Rat,

#### Reactivity

- WB, IHC, IF, IP, ELISA

#### Applications

#### MW

- 11kD (Calculated)
- 11kD (Observed)
- IgG, Kappa

#### Isotype

## Recommended Dilution Ratios

### IP

## Basic Information

#### Clonality

Monoclonal

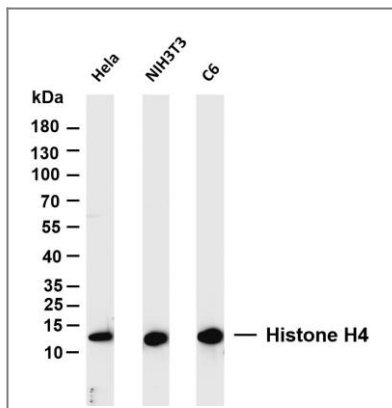
Clone Number      ANT0051R

Immunogen Information Specificity

Endogenous

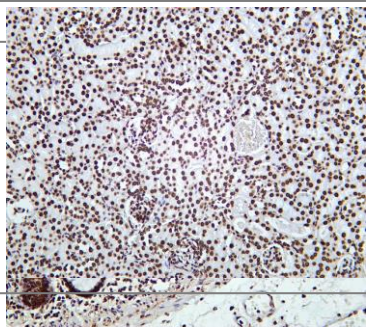
Gene name	HIST1H4A/HIST1H4B/HIST1H4C/HIST1H4D/HIST1H4E/HIST1H4F/HIST1H4H/HIST1H4I/HIST1H4J/HIST1H4K/HIST1H4L/HIST2H4A/HIST2H4B/HIST4H4		
Protein Name	Histone H4		
	Organism	Gene ID	UniProt ID
	Human	<a href="#">121504</a> ; <a href="#">554313</a> ; <a href="#">8294</a> ; <a href="#">8359</a> ; <a href="#">8360</a> ; <a href="#">8361</a> ; <a href="#">8362</a> ; <a href="#">8363</a> ; <a href="#">8364</a> ; <a href="#">8365</a> ; <a href="#">8366</a> ; <a href="#">8367</a> ; <a href="#">8368</a> ; <a href="#">8370</a> ;	<a href="#">P62805</a> ;
	Mouse	<a href="#">100041230</a> ;	<a href="#">P62806</a> ;
	Rat	<a href="#">100360950</a> ;	<a href="#">P62804</a> ;
Cellular Localization	Nuclear		
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.,ANTM: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

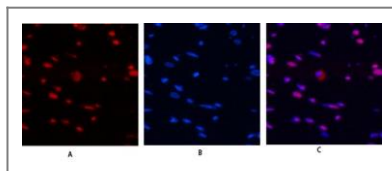
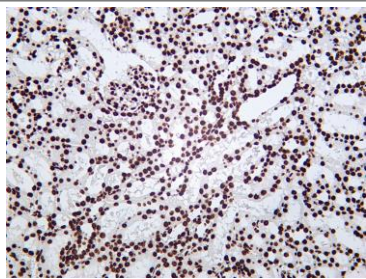


Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Histone H4 (ANT0051R) antibody. The HRPconjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: HeLa Lane 2: NIH3T3 Lane 3: C6 Predicted band size: 11kDa  
Observed band size: 11kDa

Human colon was stained with Anti-Histone H4 (ANT0051R) rabbit antibody  
Mouse kidney was stained with Anti-Histone H4 (ANT0051R) rabbit antibody



Rat kidney was stained with Anti-Histone H4 (ANT0051R) rabbit antibody



Immunofluorescence analysis of rat-heart tissue. 1, Histone H4 Polyclonal 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

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