Histone H3 (Di Methyl Lys4)Rabbit mAb (AR1891)

Key Features

Host Species:	Rabbit
Reactivity:	Human,Mouse,Rat
Applications:	WB,IHC,IF,IP,ELISA,CHIP,Cut&Tag
Isotype:	IgG,Kappa
MW:	15kDa (Calculated) 17kDa (Observed)

Recommended Dilution Ratios

IHC:	1:1000-5000
WB:	1:2000-10000
IF:	1:200-1000
ELISA:	1:5000-20000
IP:	1:50-200
CHIP:	1:50-100
Cut&Tag:	1:50-100

Storage

-15°C to -25°C/1 year (Do not lower than -25°C)

Basic Information

Clonality	Monoclonal

Immunogen Information

Specificity	Di-Methyl-Histone H3 (K4) Antibody detects endogenous levels of Histone H3 protein only when di-methylated at K4.The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites): RTkQT

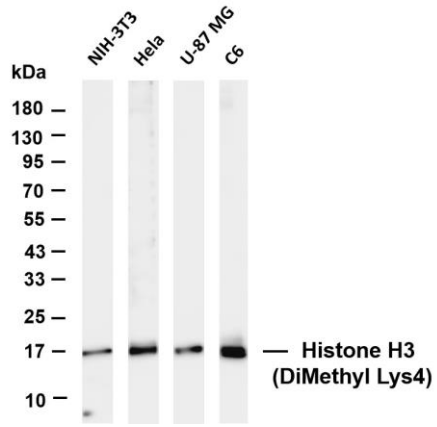
Target Information

Gene name	HIST1H3A/HIST1H3/HIST1H3C/HIST1H3D/HIST1H3E/HIST1H3F/ HIST1H3G/HIST1H3H/HIST1H3I/HIST1H3J/HIST2H3A/HIST2H3C/ HIST2H3D/H3F3A/H3F3B/H3F3C
Protein Name	Histone H3.1/Histone H3.2/Histone H3.3/Histone H3.3C

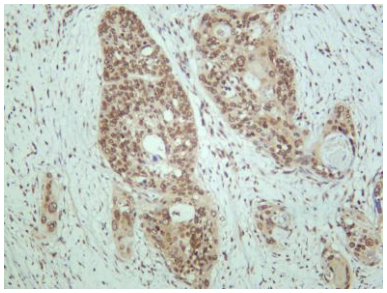
Organism	Gene ID	UniProt ID
Human	8350; 8351; 8352; 8353; 8354; 8355; 8356; 8357; 8358; 8968; 126961; 333932; 653604; 3020; 3021;440093	P68431; Q71DI3; P84243; Q6NXT2
Mouse	319152; 15077; 15078; 625328	
Rat	291159; 100361558	Q6LED0; P84245

Cellular Localization	Nucleus. Chromosome.
Tissue specificity	Blood, Epithelium, Kidney, Lung, Ovary, Spleen, Uterus

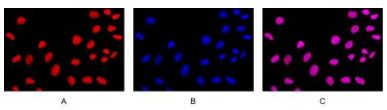
Validation Data



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Histone H3 (Di Methyl Lys4) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody.
Lane 1: NIH-3T3
Lane 2: Hela
Lane 3: U-87 MG
Lane 4: C6
Predicted band size: 15kDa
Observed band size: 17kDa



Human cervical carcinoma was stained with anti-Histone H3 (Di Methyl Lys4) rabbit antibody



Immunofluorescence analysis of HEK293.
Picture A: Histone H3 (DiMethylLys4) antibody (red).
Picture B: DAPI (blue).
Picture C: Merge of A+B