

## Anti-DiMethyl-Histone H3 (Lys9) Rabbit Monoclonal Antibody

### Introduction

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone 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 member of the histone H3 family. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element. This gene is located separately from the other H3 genes that are in the histone gene cluster on chromosome 6p22-p21.3.

### Product parameters

Alternative Names	H3K9me2; H3 histone; HIST1H3A; Histone cluster 1; H3a
Gene ID	8290
Gene Name	H3-4
SwissProt ID	Q16695
Host	Rabbit
Reactivity	Human, Mouse, Rat
Molecular Weight	Calculated MW: 16 kDa; Observed MW: 16 kDa
Conjugation	Unconjugated
Ex	-
Em	-
Modification	Methylated
Clonality	IgG
Isotype	Monoclonal Antibody
Clonality No.	AP-3E5C7
Form	Liquid
Concentration	See label
Carrier	Carrier Free
Immunogen	A synthetic methylated peptide corresponding to residues surrounding K9 of human histone H3
Purification	Affinity Purified
Buffer System	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Application	WB, ICC/IF, CHIP

Dilution Ratio	WB: 1/500-1/1000 IF: 1/50-1/200 ChIP: 1/20
Research Field	Epigenetics and Nuclear Signaling
Product Categories	Primary antibody
Shipping	Blue ice
Storage	-20°C
Expiration Date	12 months
Note	Please avoid freeze-thaw cycles.

## Protocol

Configure the product according to the application range and recommended dilution ratio.

**\*Note:** The primary antibody dilution buffer options: WB - Primary Antibody Dilution Buffer (Cat. #: K1200, Not for HRP/AP conjugated antibodies), Immunostaining - Immunol Staining Primary Antibody Dilution Solution (Cat. #: K4655).

## Note

1. This product is for scientific research use only.





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