# DiMethyl-Histone H3-K79 Rabbit pAb

Catalog No.: A20822



### **Basic Information**

Observed MW 17kDa

Calculated MW 16kDa

Category Primary antibody

Applications ELISA,WB,ChIP

Cross-Reactivity Human, Mouse, Rat, Other (Wide Range Predicted)

### Background

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 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 located separately from the other H3 genes that are in the histone gene cluster on chromosome 6p22-p21.3.

## **Recommended Dilutions**

WB	1:100 - 1:500
ChIP	5µg antibody for 5µg-10µg of Chromatin

## **Immunogen Information**

Gene ID 8290/8350 Swiss Prot Q16695/P68431

#### Immunogen

A synthetic dimethylated peptide around K79 of human histone H3 (NP\_003520.1).

#### Synonyms

H3t; H3.4; H3/g; H3FT; H3C16; HIST3H3; DiMethyl-Histone H3-K79

### Contact

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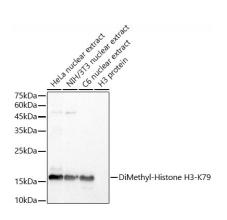
# **Product Information**

**Source** Rabbit **Isotype** IgG Purification Affinity purification

#### Storage

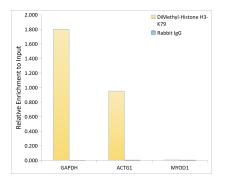
Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.05% proclin300,50% glycerol,pH7.3.

# Validation Data



Western blot analysis of various lysates using DiMethyl-Histone H3-K79 Rabbit pAb (A20822) at 1:500 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 10s.



Chromatin immunoprecipitation analysis of extracts of HeLa cells, using DiMethyl-Histone H3-K79 antibody (A20822) and rabbit IgG.The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.