

A2362

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## DiMethyl-Histone H3-K27 Rabbit pAb

Catalog No.: A2362

2 Publications

### Basic Information

#### Observed MW

17kDa

#### Calculated MW

16kDa

#### Category

Polyclonal Antibody

#### Applications

WB, IHC-P, IF/ICC, ChIP, ChIP-seq, ELISA, DB

#### 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

DB	1:500 - 1:1000
WB	1:500 - 1:1000
IHC-P	1:50 - 1:200
IF/ICC	1:50 - 1:200
ChIP	5µg antibody for 5µg-10µg of Chromatin
ChIP-seq	1:20 - 1:100

### Contact



[www.abclonal.com](http://www.abclonal.com)

### Immunogen Information

#### Gene ID

8290/8350

#### Swiss Prot

Q16695/P68431

#### Immunogen

A synthetic peptide corresponding to a sequence within amino acids 1-100 of human histone H3 (NP\_003520.1).

#### Synonyms

H3t; H3.4; H3/g; H3FT; H3C16; HIST3H3; DiMethyl-Histone H3-K27

### Product Information

#### Source

Rabbit

#### Isotype

IgG

#### Purification

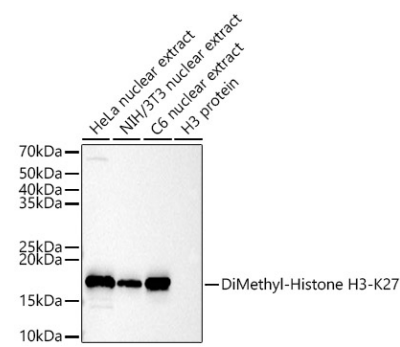
Affinity purification

#### Storage

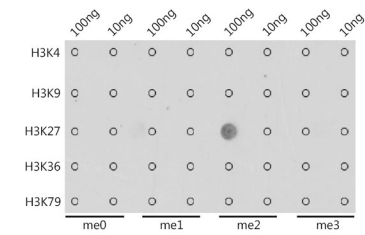
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.

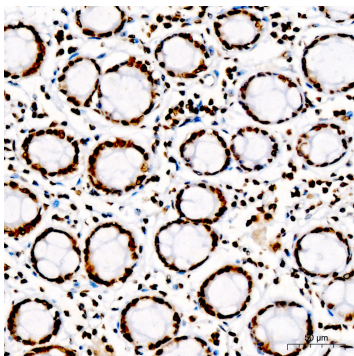
Validation Data



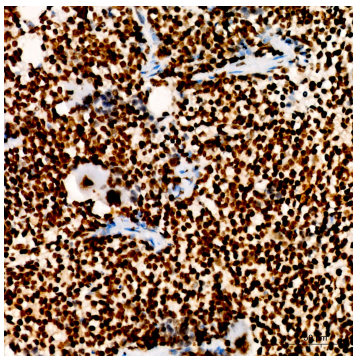
Western blot analysis of various lysates, using DiMethyl-Histone H3-K27 Rabbit pAb (A2362) at 1:1000 dilution.  
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 180s.



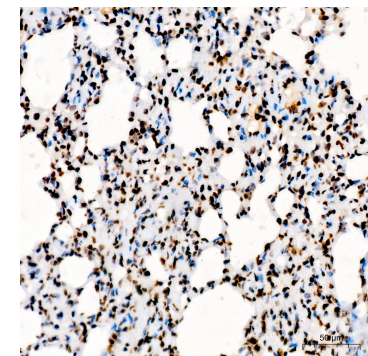
Dot-blot analysis of all sorts of methylation peptides using DiMethyl-Histone H3-K27 antibody (A2362) at 1:1000 dilution.



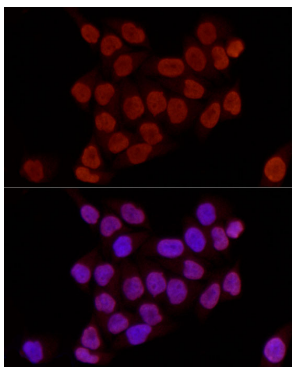
Immunohistochemistry analysis of DiMethyl-Histone H3-K27 in paraffin-embedded human colon tissue using DiMethyl-Histone H3-K27 Rabbit pAb (A2362) at a dilution of 1:100 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of DiMethyl-Histone H3-K27 in paraffin-embedded mouse spleen tissue using DiMethyl-Histone H3-K27 Rabbit pAb (A2362) at a dilution of 1:100 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.

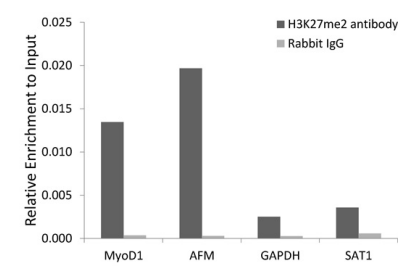


Immunohistochemistry analysis of DiMethyl-Histone H3-K27 in paraffin-embedded rat lung tissue using DiMethyl-Histone H3-K27 Rabbit pAb (A2362) at a dilution of 1:100 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunofluorescence analysis of HeLa cells using DiMethyl-Histone H3-K27 Rabbit pAb (A2362) at dilution of 1:20 (40x lens). Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.

# Validation Data



Chromatin immunoprecipitation analysis of extracts of 293 cell line, using DiMethyl-Histone H3-K27 antibody (A2362) 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.