

# MonoMethyl-Histone H3-K27 Rabbit pAb

Catalog No.: A2361 9 Publications

## Basic Information

### Observed MW

17 kDa

### Calculated MW

15 kDa

### Category

Primary antibody

### Applications

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

### 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. This structure consists of approximately 146 bp of DNA wrapped around a nucleosome, an 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 found in the large histone gene cluster on chromosome 6p22-p21.3.

## Recommended Dilutions

**WB** 1:500 - 1:5000

**IF/ICC** 1:50 - 1:200

**IHC-P** 1:50 - 1:200

**DB** 1:500 - 1:2000

**ChIP** 5 µg antibody for 5 µg-10 µg of Chromatin

**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

## Contact

 | 400-999-6126

 | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn)

## Immunogen Information

### Gene ID

8290/8350

### Swiss Prot

Q16695/P68431

### Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

### Synonyms

H3/A; H3C2; H3C3; H3C4; H3C6; H3C7; H3C8; H3FA; H3C10; H3C11; H3C12; HIST1H3A; MonoMethyl-Histone H3-K27

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

Affinity purification

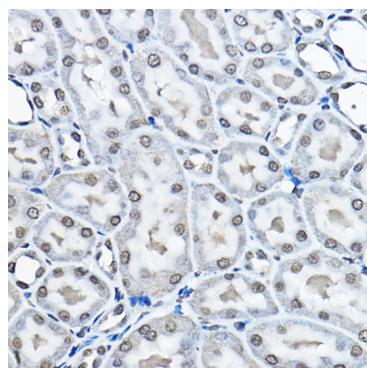
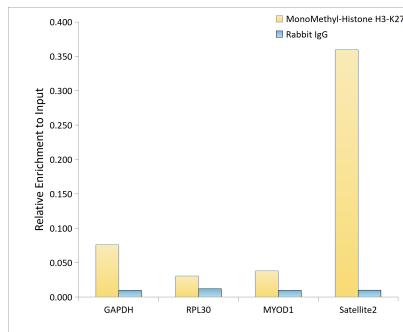
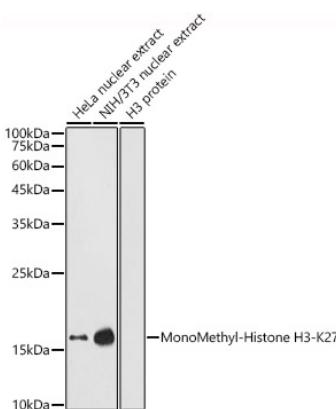
### Storage

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

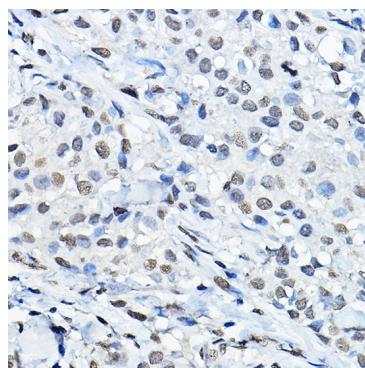
Buffer: PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.



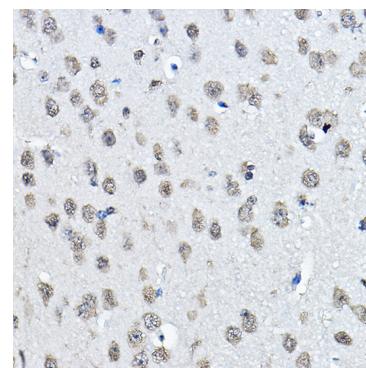
## Validation Data



Immunohistochemistry analysis of paraffin-embedded Rat kidney using MonoMethyl-Histone H3-K27 Rabbit pAb (A2361) at dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human breast cancer using MonoMethyl-Histone H3-K27 Rabbit pAb (A2361) at dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.

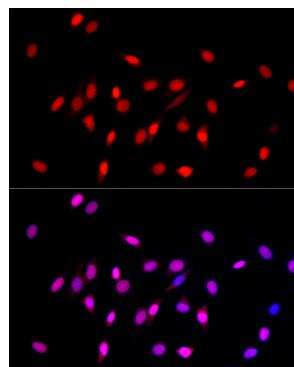


Immunohistochemistry analysis of paraffin-embedded Mouse brain using MonoMethyl-Histone H3-K27 Rabbit pAb (A2361) at dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.

## Validation Data

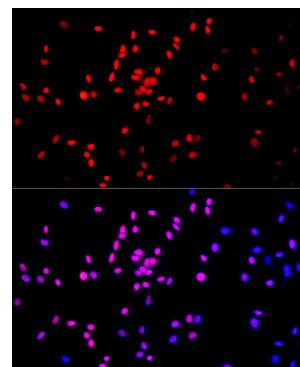
	10ng	100ng	10ng	100ng	10ng	100ng	10ng	100ng
H3K4	○	○	○	○	○	○	○	○
H3K9	○	○	○	○	○	○	○	○
H3K27	○	○	○	○	●	●	○	○
H3K36	○	○	○	○	○	○	○	○
H3K79	○	○	○	○	○	○	○	○

me3      me2      me1      me0



Dot-blot analysis of all sorts of methylation peptides using MonoMethyl-Histone H3-K27 antibody (A2361).

Immunofluorescence analysis of NIH/3T3 cells using MonoMethyl-Histone H3-K27 Rabbit pAb (A2361) at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of PC-12 cells using MonoMethyl-Histone H3-K27 Rabbit pAb (A2361) at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.