# Acetyl-Histone H3-K27 Rabbit pAb

Catalog No.: A20184



## **Basic Information**

#### **Observed MW**

17kDa

#### **Calculated MW**

15kDa

#### Category

Primary antibody

## **Applications**

WB, DB, ELISA, 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. 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 - 1:1000

**DB** 1:500 - 1:1000

**ELISA** Recommended starting

concentration is 1 µg/mL.

Please optimize the
concentration based on
your specific assay
requirements.

**ChIP** 5µg antibody for

5μg-10μg of Chromatin

## Immunogen Information

**Gene ID Swiss Prot**8290/8350
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; Acetyl-Histone H3-K27

## **Contact**

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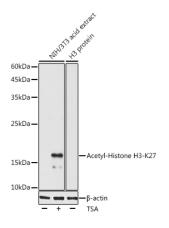
## **Product Information**

SourceIsotypePurificationRabbitIgGAffinity 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.



Western blot analysis of various lysates using Acetyl-Histone H3-K27 Rabbit pAb (A20184) at 1:1000 dilution. NIH/3T3 cells were treated with TSA (1 uM) at 37°C for 18 hours.

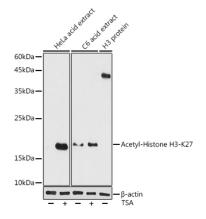
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 1s.



Western blot analysis of various lysates using Acetyl-Histone H3-K27 Rabbit pAb (A20184) at 1:1000 dilution. HeLa cells and C6 cells were treated with TSA (1 uM) at  $37^{\circ}$ C for 18 hours.

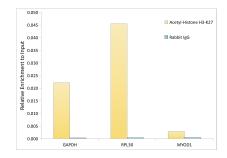
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

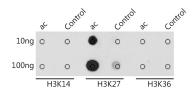
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 180s.



Chromatin immunoprecipitation analysis of extracts of HeLa cells, using Acetyl-Histone H3-K27 Rabbit pAb antibody (A20184) 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.



# **Validation Data**

Dot-blot analysis of all sorts of peptides using Acetyl-Histone H3-K27 antibody (A20184) at 1:1000 dilution.