

Datasheet for ABIN6655653  
**anti-HIST1H3A antibody (H3K27me2)**



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5 Images

## Overview

Quantity:	50 µg
Target:	HIST1H3A
Binding Specificity:	H3K27me2
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HIST1H3A antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Immunofluorescence (IF), Chromatin Immunoprecipitation (ChIP), Dot Blot (DB), Fluorescence Microscopy (FM)

## Product Details

Purpose:	Histone H3 K27me2 Antibody
Immunogen:	Anti-H3K27me2 Antibody was produced in rabbits by repeated immunizations with a synthetic peptide of human histone H3, dimethylated at lysine 27.
Isotype:	IgG
Cross-Reactivity (Details):	This product reacts with human Histone 3 dimethyl Lys27.
Purification:	Anti-H3K27me2 Antibody was purified by affinity purification.
Sterility:	Sterile filtered

## Target Details

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Target:	HIST1H3A
Alternative Name:	HIST1H3A ( <a href="#">HIST1H3A Products</a> )
Background:	<p>Synonyms: Histone H3.1, Histone H3/a, Histone H3/b, Histone H3/c, Histone H3/d, Histone H3/e, Histone H3/f, Histone H3/g, Histone H3/h, Histone H3/i, Histone H3/j, Histone H3/k, Histone H3/l</p> <p>Background: Histones are the main constituents of the protein part of chromosomes of eukaryotic cells. They are rich in the amino acids arginine and lysine and have been greatly conserved during evolution. Histones pack the DNA into tight masses of chromatin. Two core histones of each class H2A, H2B, H3 and H4 assemble and are wrapped by 146 base pairs of DNA to form one octameric nucleosome. Histone tails undergo numerous post-translational modifications, which either directly or indirectly alter chromatin structure to facilitate transcriptional activation or repression or other nuclear processes. In addition to the genetic code, combinations of the different histone modifications reveal the so-called "histone code". Histone methylation and demethylation is dynamically regulated by respectively histone methyltransferases and histone demethylases. Levels of H3K27 dimethylation are higher in silent genes than in active genes suggesting that this histone modification is associated with transcriptional repression. Anti-H3K27me2 Antibody is ideal for research in Chromatin Remodeling, Epigenetics and Gene Expression.</p> <p>Gene Name: HIST1H3A</p>
Gene ID:	3020
NCBI Accession:	<a href="#">NP_002098</a>
UniProt:	<a href="#">P84243</a>

## Application Details

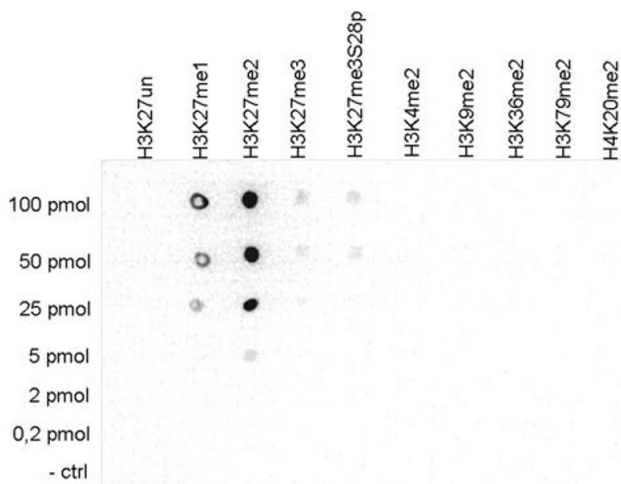
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Application Notes:	ChIP_Dilution: 2 µg/ChIP ELISA_Dilution: 1:1,000 IF_Microscopy_Dilution: 1:500 Western_Blot_Dilution: 1:1,000 Other: Dot Blot: 1:50,000
Comment:	Anti-H3K27me2 Antibody is tested in Chromatin Immunoprecipitation, Dot Blot, ELISA, Immunofluorescence, and Western Blots. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 17 kDa in the appropriate cell lysate or extract.
Restrictions:	For Research Use only

## Handling

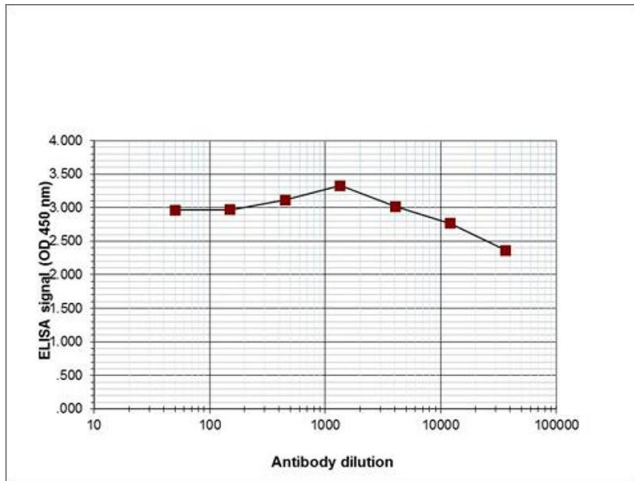
Format:	Liquid
Buffer:	Buffer: 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: 0.05 % (w/v) Sodium Azide and 0.05 % ProClin 300
Preservative:	ProClin, Sodium azide
Precaution of Use:	This product contains Sodium azide and ProClin: POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months

## Images



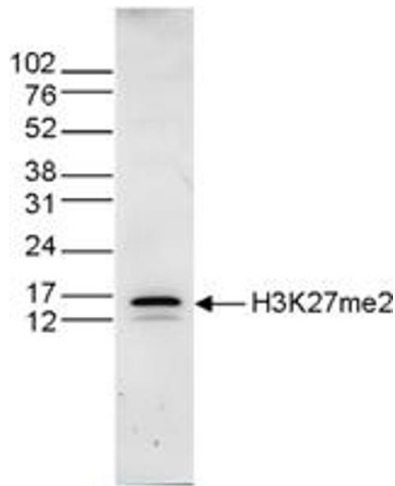
### Dot Blot

**Image 1.** Dot Blot of anti-Histone H3 K27 me2 antibody. Dot Blot results of Rabbit anti-Histone H3 K27 me2 antibody. Antigens: H3K27, H3K27me1, H3K27me2, H3K27me3, H3K27me3 S28p, H3K4me2, H3K9me2, H3K36me2, H3K79me2, H4K20me2. Load: 100pmol, 50pmol, 25pmol, 5pmol, 2pmol, 0.2pmol, and control. Primary antibody: Histone H3 K27 me2 antibody at 1:50,000 for 45 min at 4°C. Secondary antibody: anti-rabbit HRP secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO.



### ELISA

**Image 2.** ELISA of anti-Histone H3 K27 me2 antibody ELISA results of Rabbit anti-Histone H3 K27 me2 antibody. Antigen: Histone H3 K27 me2. Coating amount: 0.1 µg per well. Dilution series: serial. Titer: 1:480,000 Histone H3 K27 me2 antibody. Substrate: TMB .



### Western Blotting

**Image 3.** Western Blot of anti-Histone H3 K27 me2 antibody Western Blot results of Rabbit anti-Histone H3 K27 me2 antibody. Lane 1: 15 µg of histone extracts from HeLa cells. Primary antibody: Rabbit anti-Histone H3 K27 me2 antibody at 1:1,000 overnight at 4°C. Secondary antibody: Peroxidase anti-rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: TBS-Tween / 5% BLOTTO. Predicted/Observed size: ~15 kDa for Rabbit Histone H3 K27 me2.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN6655653.