

Datasheet for ABIN6655652
anti-HIST1H3A antibody (H3K27me)



[Go to Product page](#)

4 Images

Overview

Quantity:	50 µg
Target:	HIST1H3A
Binding Specificity:	H3K27me
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 K27me1 Antibody
Immunogen:	Anti-Histone H3 K27 me1 Antibody was produced in rabbits by repeated immunizations with a synthetic peptide of histone H3 containing the monomethylated lysine 27.
Isotype:	IgG
Cross-Reactivity (Details):	This product reacts with human Histone 3 methyl Lys27.
Purification:	Anti-Histone H3 k27 me1 Antibody was purified by affinity purification.
Sterility:	Sterile filtered

Target Details

Target:	HIST1H3A
Alternative Name:	HIST1H3A (HIST1H3A Products)
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 methyl transferases and histone demethylases. Anti-Histone H3 K27 me1 Antibody is ideal for research in Chromatin Remodeling and Genetics.</p> <p>Gene Name: HIST1H3A</p>
Gene ID:	3020
NCBI Accession:	NP_002098
UniProt:	P84243

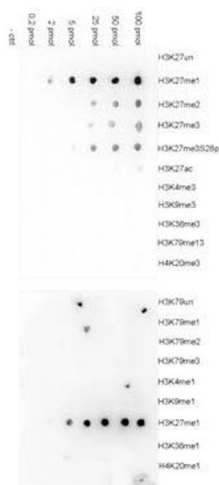
Application Details

Application Notes:	ChIP_Dilution: 1 µg per IP ELISA_Dilution: 1:500 IF_Microscopy_Dilution: 1:1,000 Western_Blot_Dilution: 1:1,000 Other: Dot Blot: 1:20,000
Comment:	Anti-Histone H3 K27 me1 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 15kDa in the appropriate cell lysate or extract.
Restrictions:	For Research Use only

Handling

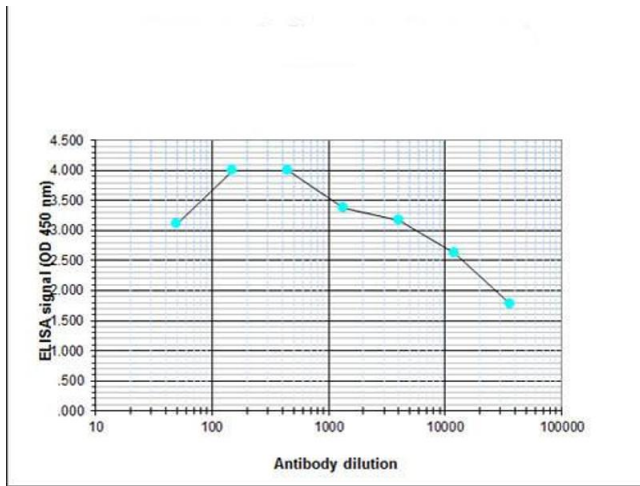
Format:	Liquid
Buffer:	Buffer: 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: 0.05 % (w/v) Sodium Azide and 0.05 % ProClin 300
Preservative:	ProClin, Sodium azide
Precaution of Use:	This product contains Sodium azide and ProClin: POISONOUS AND HAZARDOUS SUBSTANCES 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



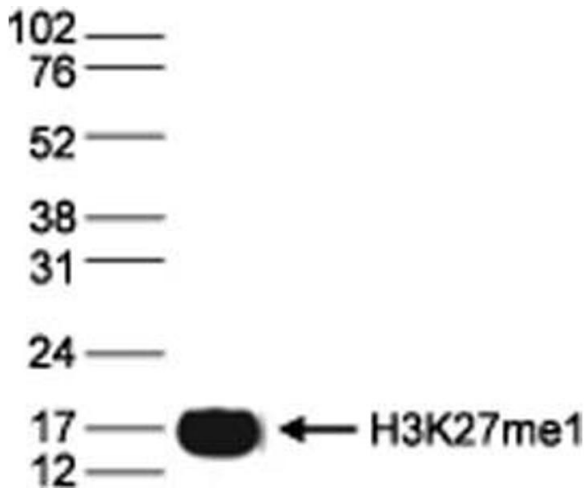
Dot Blot

Image 1. Dot Blot results of H3K27me1 antibody. Antigen: H3K27me1 and other modifications and unmodified sequences of histone H3 and H4. Load: 100 pmol, 50 pmol, 25 pmol, 5 pmol, 2 pmol, and 0.2 pmol with control. Primary antibody: H3K27me1 antibody at 1:20,000 for 45 min at 4°C. Secondary antibody: anti-rabbit HRP antibody at 1:20,000 for 45 min at RT. Block: 5% BLOTTO.



ELISA

Image 2. ELISA results of H3K27me1 antibody ELISA results of H3K27me1 antibody. Antigen: BSA coupled to H3K27me1. Coating amount: 0.1 µg per well. Dilution series: serial. Titer: 1:32,900 H3K27me1 antibody. Substrate: TMB .



Western Blotting

Image 3. Western Blot of anti-Histone H3K27me1 antibody Western Blot results of Rabbit anti-Histone H3K27me1 antibody. Lane 1: 15 µg of histone extracts from HeLa cells. Primary antibody: Rabbit anti-Histone H3 K27 me2 antibody at 1:1,000. 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 4 images are available for ABIN6655652.