

Datasheet for ABIN2668416

**anti-Histone 3 antibody (H3K27me3)****5** Images**39** Publications[Go to Product page](#)

## Overview

Quantity:	100 µg
Target:	Histone 3 (H3)
Binding Specificity:	H3K27me3
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunofluorescence (IF), Chromatin Immunoprecipitation (ChIP), Immunocytochemistry (ICC), Dot Blot (DB), ChIP DNA-Sequencing (ChIP-seq)

## Product Details

Immunogen:	This Histone H3 trimethylLys27 antibody was raised against a peptide including trimethyllysine 27 of histone H3. testing
Isotype:	IgG
Purification:	Protein A Chromatography

## Target Details

Target:	Histone 3 (H3)
Alternative Name:	Histone H3 ( <a href="#">H3 Products</a> )
Molecular Weight:	17 kDa
Gene ID:	3020

## Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

## Handling

Concentration: 1 µg/µL

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freeze/thaw cycles and keep on ice when not in storage.

Storage: -20 °C

Storage Comment: Antibodies in solution can be stored at -20 °C for 2 years.

Expiry Date: 6 months

## Publications

Product cited in: Su, Wang, Lee, Stephens, Papazyan, Voronina, Krautkramer, Raman, Thorpe, Boersma, Kuznetsov, Miller, Taverna, Phillips, Denu: "Reader domain specificity and lysine demethylase-4 family function." in: **Nature communications**, Vol. 7, pp. 13387, (2016) ([PubMed](#)).

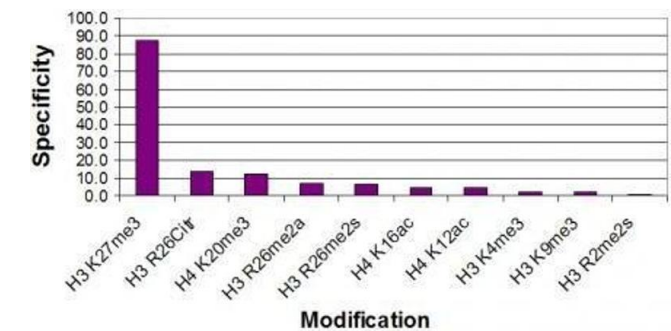
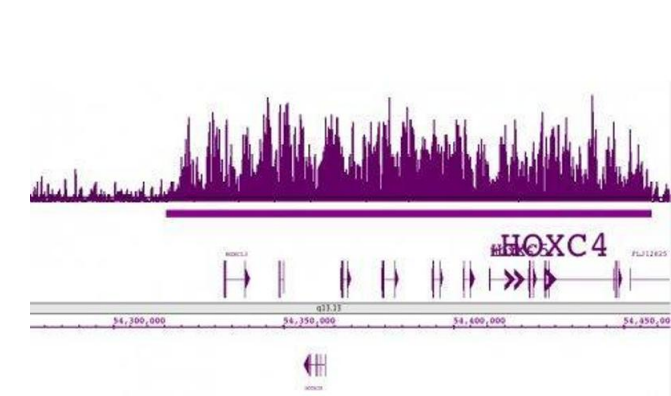
Matsuda, Kobayashi-Ishihara, Fujikawa, Ishida, Watanabe, Yamagishi: "Epigenetic heterogeneity in HIV-1 latency establishment." in: **Scientific reports**, Vol. 5, pp. 7701, (2015) ([PubMed](#)).

Lay, Liu, Kelly, Witt, Farnham, Jones, Berman: "The role of DNA methylation in directing the functional organization of the cancer epigenome." in: **Genome research**, Vol. 25, Issue 4, pp. 467-77, (2015) ([PubMed](#)).

Cabrera, Olcese, Horabin: "A balancing act: heterochromatin protein 1a and the Polycomb group coordinate their levels to silence chromatin in Drosophila." in: **Epigenetics & chromatin**, Vol. 8, pp. 17, (2015) ([PubMed](#)).

Harr, Luperchio, Wong, Cohen, Wheelan, Reddy: "Directed targeting of chromatin to the nuclear lamina is mediated by chromatin state and A-type lamins." in: **The Journal of cell biology**, Vol. 208, Issue 1, pp. 33-52, (2015) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)

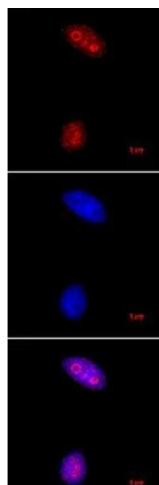


### ChIP DNA-Sequencing

**Image 1.** Histone H3 trimethyl Lys27 pAb tested by ChIP-Seq. ChIP was performed using chromatin from the human iPS 19.11 cell line. ChIP DNA was sequenced on the Illumina GA II and sequence tags were mapped to identify H3K27me3 binding. The image shows H3K27me3 binding across a 140,000 bp region of the HOX gene cluster on chromosome 12.

### Chromatin Immunoprecipitation

**Image 2.** Histone H3 trimethyl Lys27 antibody specificity tested by peptide array analysis. Peptide array analysis was used to confirm the specificity of this antibody for its intended modification. Histone H3 trimethyl Lys27 antibody was applied at a dilution of 1:5,000 to Active Motif's MODified™ Histone Peptide Array (Catalog No. 13001). The arrays were scanned with ArrayAnalysis Software 7 and the results plotted. Specificity data is shown for the most reactive peptides and those related to the immunogen. Recognition of the H3 trimethyl Lys27 peptides by the antibody blocked by phosphorylation at Ser28. Array Data File



#### Immunofluorescence

**Image 3.** Histone H3 trimethyl Lys27 antibody tested by immunofluorescence. HeLa cells stained with Histone H3 trimethyl Lys27 antibody (1.7 µg/ml dilution). Top panel: Histone H3 trimethyl Lys27 antibody. Middle: DAPI. Bottom: Merge of both images.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN2668416.