

Datasheet for ABIN3434046

anti-Histone 3 antibody (H3K36me3)

5 Images

5 Publications

[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	Histone 3 (H3)
Binding Specificity:	H3K36me3
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Histone 3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Chromatin Immunoprecipitation (ChIP), Dot Blot (DB), ChIP DNA-Sequencing (ChIP-seq), Immunocytochemistry (ICC), Cleavage Under Targets and Release Using Nuclease (CUT&RUN)

Product Details

Immunogen:	This Histone H3 trimethylLys36 antibody was raised against a peptide containing trimethylLys36 of human histone H3.
Isotype:	IgG
Purification:	Protein A Chromatography

Target Details

Target:	Histone 3 (H3)
Alternative Name:	Histone H3 (H3 Products)
Molecular Weight:	17 kDa

Target Details

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: Powers, Parvanov, Baker, Walker, Petkov, Paigen: "The Meiotic Recombination Activator PRDM9 Trimethylates Both H3K36 and H3K4 at Recombination Hotspots In Vivo." in: **PLoS genetics**, Vol. 12, Issue 6, pp. e1006146, (2016) ([PubMed](#)).

Ho, Nateras, Yan, Park, Jensen, Borges, Lee, Champion, Tibes, Bryce, Carballido, Todd, Joseph, Wong, Parker, Stanton, Castle: "A Multidisciplinary Biospecimen Bank of Renal Cell Carcinomas Compatible with Discovery Platforms at Mayo Clinic, Scottsdale, Arizona." in: **PLoS ONE**, Vol. 10, Issue 7, pp. e0132831, (2015) ([PubMed](#)).

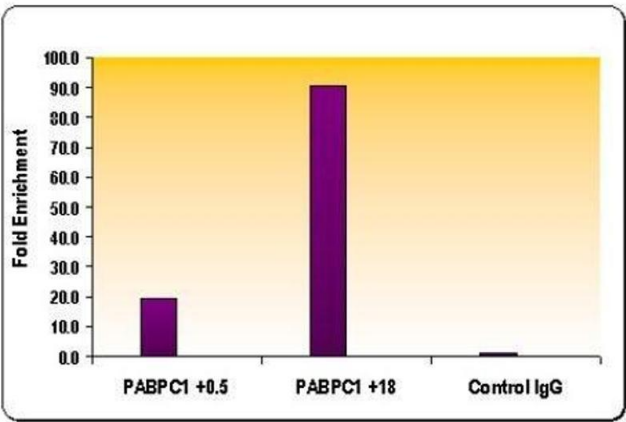
Pham, Inoue, Vu, Nguyen, Nakayashiki, Ikeda, Nakayashiki: "MoSET1 (Histone H3K4 Methyltransferase in Magnaporthe oryzae) Regulates Global Gene Expression during Infection-Related Morphogenesis." in: **PLoS genetics**, Vol. 11, Issue 7, pp. e1005385, (2015) ([PubMed](#)).

Feng, Zhang, Shea, Creighton, Coarfa, Hilsenbeck, Lanz, He, Wang, Fu, Nardone, Song, Bradner, Mitsiades, Mitsiades, Osborne, Schiff, OMalley: "An epigenomic approach to therapy for

tamoxifen-resistant breast cancer." in: **Cell research**, Vol. 24, Issue 7, pp. 809-19, (2014) ([PubMed](#)).

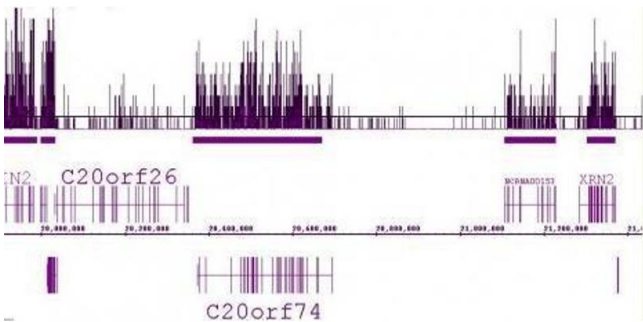
Mews, Zee, Liu, Donahue, Garcia, Berger: "Histone methylation has dynamics distinct from those of histone acetylation in cell cycle reentry from quiescence." in: **Molecular and cellular biology**, Vol. 34, Issue 21, pp. 3968-80, (2014) ([PubMed](#)).

Images



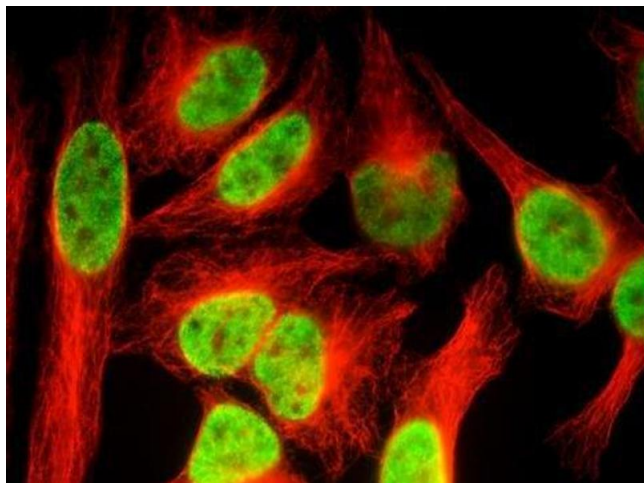
Chromatin Immunoprecipitation

Image 1. Chromatin IP: ChIP performed using HeLa Chromatin (1.5×10^6 cell equivalents per ChIP) and 10 μ g of Histone H3 trimethyl Lys36 antibody (pAb) or the equivalent amount of rabbit IgG as a negative control. Real time, quantitative PCR (RT-qPCR) was performed on DNA purified from each of the ChIP reactions using a primer pair specific for either the PABPC1 (+ 0.5) or the PABPC1 (+18) gene. Data are presented as Fold Enrichment of the ChIP antibody signal versus the negative control IgG using the ddCT method.



ChIP DNA-Sequencing

Image 2. Histone H3 trimethyl Lys36 antibody (pAb) tested by ChIP-Seq. ChIP was performed using the ChIP-IT® High Sensitivity Kit (Cat. No. 53040) with 30 μ g of chromatin from a human kidney. ChIP DNA was sequenced on the Illumina GA II and 30 million sequence tags were mapped to identify H3K36me3 binding across the genome. The image is zoomed in to show H3K36me3 binding across 5 different genes on chromosome 20.



Immunofluorescence

Image 3. Histone H3K36me3 antibody (pAb) tested by immunofluorescence. HeLa cells stained with Histone H3K36me3 antibody (green) at a 1 ug/ml dilution. Tubulin staining was done with our alpha Tubulin antibody, catalog no.39527 (red) at a 1:1,000 dilution.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN3434046.