

Resource Summary Report

Generated by [dkNET](#) on Sep 14, 2026

Anti-trimethyl-Histone H3 (Lys4), clone MC315

RRID:AB_1163444

Type: Antibody

Proper Citation

Millipore Cat# 04-745, RRID:AB_1163444

Antibody Information

URL: http://antibodyregistry.org/AB_1163444

Proper Citation: Millipore Cat# 04-745, RRID:AB_1163444

Target Antigen: Human Histone H3, trimethyl (Lys4)

Host Organism: rabbit

Clonality: monoclonal

Comments: seller recommendations: Immunoprecipitation; Western Blot; Western Blotting,Chromatin Immunoprecipitation

Antibody Name: Anti-trimethyl-Histone H3 (Lys4), clone MC315

Description: This monoclonal targets Human Histone H3, trimethyl (Lys4)

Target Organism: human

Clone ID: Clone MC315

Antibody ID: AB_1163444

Vendor: Millipore

Catalog Number: 04-745

Record Creation Time: 20231110T053821+0000

Record Last Update: 20260901T054134+0000

Ratings and Alerts

- ENCODE PROJECT External validation for lot: 1606783 is available under ENCODE ID: ENCAB000ARK - ENCODE
<https://www.encodeproject.org/antibodies/ENCAB000ARK>

No alerts have been found for Anti-trimethyl-Histone H3 (Lys4), clone MC315.

Data and Source Information

Source: [Antibody Registry](#)

Usage and Citation Metrics

We found 45 mentions in open access literature.

Listed below are recent publications. The full list is available at [dkNET](#) .

Viscomi MP, et al. (2026) Placental lipid droplets and histone marks reveal a metabolic-epigenetic phenotype in the BTBR mouse model of autism. *Placenta*, 181, 184.

Kouille A, et al. (2026) The chromatin remodeller CHD4 regulates transcription factor binding to both prevent activation of silent enhancers and maintain active regulatory elements. *eLife*, 14.

Navratilova P, et al. (2026) Epigenome and interactome profiling uncovers principles of distal regulation in the barley genome. *Cell genomics*, 6(1), 101037.

Vinaixa J, et al. (2025) Nuclear Galectin-1 promotes KRAS-dependent activation of pancreatic cancer stellate cells. *Proceedings of the National Academy of Sciences of the United States of America*, 122(14), e2424051122.

Martianov I, et al. (2025) The transcription factor IID subunit Taf13 is dispensable for TATA binding protein promoter recruitment and RNA polymerase II transcription. *iScience*, 28(6), 112286.

Kumar B, et al. (2025) Multiplexed chromatin immunoprecipitation sequencing for quantitative study of histone modifications and chromatin factors. *Nature protocols*, 20(3), 779.

Tatarakis A, et al. (2025) Requirements for establishment and epigenetic stability of mammalian heterochromatin. *Molecular cell*, 85(18), 3388.

Cai S, et al. (2025) Methionine regulates maternal-fetal immune tolerance and endometrial receptivity by enhancing embryonic IL-5 secretion. *Cell reports*, 44(2), 115291.

Ziegler KC, et al. (2025) The brain neurovascular epigenome and its association with dementia. *Neuron*.

Bernardo E, et al. (2025) HNF1A and A1CF coordinate a beta cell transcription-splicing axis that is disrupted in type 2 diabetes. *Cell metabolism*, 37(9), 1870.

Cobo I, et al. (2025) Particle uptake by macrophages triggers bifurcated transcriptional pathways that differentially regulate inflammation and lysosomal gene expression. *Immunity*, 58(4), 826.

Peng B, et al. (2025) Mouse totipotent blastomere-like cells model embryogenesis from zygotic genome activation to post implantation. *Cell stem cell*, 32(3), 391.

Zhao H, et al. (2024) Pluripotency state transition of embryonic stem cells requires the turnover of histone chaperone FACT on chromatin. *iScience*, 27(1), 108537.

Kubo N, et al. (2024) H3K4me1 facilitates promoter-enhancer interactions and gene activation during embryonic stem cell differentiation. *Molecular cell*, 84(9), 1742.

Shen SY, et al. (2024) Optimizing rice grain size by attenuating phosphorylation-triggered functional impairment of a chromatin modifier ternary complex. *Developmental cell*, 59(4), 448.

Massenet J, et al. (2024) Epigenetic control of myogenic identity of human muscle stem cells in Duchenne muscular dystrophy. *iScience*, 27(12), 111350.

Lin X, et al. (2023) Cooperation of MLL1 and Jun in controlling H3K4me3 on enhancers in colorectal cancer. *Genome biology*, 24(1), 268.

Fisher AL, et al. (2023) Quantitative proteomics and RNA-sequencing of mouse liver endothelial cells identify novel regulators of BMP6 by iron. *iScience*, 26(12), 108555.

Zhu K, et al. (2023) An intrinsically disordered region controlling condensation of a circadian clock component and rhythmic transcription in the liver. *Molecular cell*, 83(19), 3457.

Wang N, et al. (2023) Single-cell profiling of lncRNAs in human germ cells and molecular analysis reveals transcriptional regulation of LNC1845 on LHX8. *eLife*, 12.