

Resource Summary Report

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ENCODE Project Antibody validation SMC3_(ab9263)

RRID:AB_307122

Type: Antibody

Proper Citation

Abcam Cat# ab9263, RRID:AB_307122

Antibody Information

URL: http://antibodyregistry.org/AB_307122

Proper Citation: Abcam Cat# ab9263, RRID:AB_307122

Target Antigen: SMC3

Host Organism: rabbit

Clonality: polyclonal

Comments: Rabbit polyclonal affinity purified raised against synthetic peptide representing a portion within the last 100 amino acids of the human Structural Maintenance of Chromosomes-3 conjugated to KLH. Antibody Target: SMC3
Validation: ENCODE PROJECT validation information available

Antibody Name: ENCODE Project Antibody validation SMC3_(ab9263)

Description: This polyclonal targets SMC3

Target Organism: human

Antibody ID: AB_307122

Vendor: Abcam

Catalog Number: ab9263

Record Creation Time: 20231110T035233+0000

Record Last Update: 20260830T002430+0000

Ratings and Alerts

- ENCODE PROJECT External validation for lot: GR214360 is available under ENCODE ID: ENCAB749XQY - ENCODE <https://www.encodeproject.org/antibodies/ENCAB749XQY>

No alerts have been found for ENCODE Project Antibody validation SMC3_(ab9263).

Data and Source Information

Source: [Antibody Registry](#)

Usage and Citation Metrics

We found 21 mentions in open access literature.

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

Choubey P, et al. (2026) Cohesin complex cooperates with PU.1 at super-enhancers to regulate the differentiation and identity of conventional dendritic cells. *Cell reports*, 45(5), 117331.

Chen H, et al. (2026) Genome-wide rotational and translational phasing of nucleosomes with human transcription factors. *Molecular cell*, 86(14), 2722.

Do C, et al. (2025) Binding domain mutations provide insight into CTCF's relationship with chromatin and its contribution to gene regulation. *Cell genomics*, 5(4), 100813.

Haase J, et al. (2025) Cohesin-mediated stabilization of the CCAN complex at kinetochores in mitosis. *Current biology : CB*, 35(16), 3943.

Du M, et al. (2024) Direct observation of a condensate effect on super-enhancer controlled gene bursting. *Cell*, 187(2), 331.

Smits WK, et al. (2023) Elevated enhancer-oncogene contacts and higher oncogene expression levels by recurrent CTCF inactivating mutations in acute T cell leukemia. *Cell reports*, 42(4), 112373.

Bastos N, et al. (2023) SMC3 epigenetic silencing regulates Rab27a expression and drives pancreatic cancer progression. *Journal of translational medicine*, 21(1), 578.

Hazawa M, et al. (2023) Super-enhancer trapping by the nuclear pore via intrinsically disordered regions of proteins in squamous cell carcinoma cells. *Cell chemical biology*.

Hoffman JA, et al. (2022) Multimodal regulatory elements within a hormone-specific super enhancer control a heterogeneous transcriptional response. *Molecular cell*, 82(4), 803.

Przanowska RK, et al. (2022) Distinct MUNC lncRNA structural domains regulate transcription of different promyogenic factors. *Cell reports*, 38(7), 110361.

Chomiak AA, et al. (2022) Nde1 is required for heterochromatin compaction and stability in neocortical neurons. *iScience*, 25(6), 104354.

Guo Y, et al. (2022) Chromatin jets define the properties of cohesin-driven in vivo loop extrusion. *Molecular cell*, 82(20), 3769.

Cajigas I, et al. (2021) Sox2-Evf2 lncRNA-mediated mechanisms of chromosome topological control in developing forebrain. *Development (Cambridge, England)*, 148(6).

Shimori M, et al. (2021) Suv4-20h2 protects against influenza virus infection by suppression of chromatin loop formation. *iScience*, 24(6), 102660.

Perea-Resa C, et al. (2020) Cohesin Removal Reprograms Gene Expression upon Mitotic Entry. *Molecular cell*, 78(1), 127.

Zhang K, et al. (2020) Analysis of Genome Architecture during SCNT Reveals a Role of Cohesin in Impeding Minor ZGA. *Molecular cell*, 79(2), 234.

Gu B, et al. (2020) Opposing Effects of Cohesin and Transcription on CTCF Organization Revealed by Super-resolution Imaging. *Molecular cell*, 80(4), 699.

Bhattacharyya T, et al. (2019) Prdm9 and Meiotic Cohesin Proteins Cooperatively Promote DNA Double-Strand Break Formation in Mammalian Spermatocytes. *Current biology : CB*, 29(6), 1002.

Zielinska AP, et al. (2019) Meiotic Kinetochores Fragment into Multiple Lobes upon Cohesin Loss in Aging Eggs. *Current biology : CB*, 29(22), 3749.

Cajigas I, et al. (2018) The Evf2 Ultraconserved Enhancer lncRNA Functionally and Spatially Organizes Megabase Distant Genes in the Developing Forebrain. *Molecular cell*, 71(6), 956.