

Resource Summary Report

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5-Hydroxymethylcytosine (5-hmC) antibody

RRID:AB_10013602

Type: Antibody

Proper Citation

(Active Motif Cat# 39769, RRID:AB_10013602)

Antibody Information

URL: http://antibodyregistry.org/AB_10013602

Proper Citation: (Active Motif Cat# 39769, RRID:AB_10013602)

Target Antigen: 5-Hydroxymethylcytosine (5-hmC)

Host Organism: rabbit

Clonality: polyclonal

Comments: Applications: DB, IF, IHC, MeDIP

Antibody Name: 5-Hydroxymethylcytosine (5-hmC) antibody

Description: This polyclonal targets 5-Hydroxymethylcytosine (5-hmC)

Target Organism: mouse, human

Defining Citation: [PMID:22419071](#)

Antibody ID: AB_10013602

Vendor: Active Motif

Catalog Number: 39769

Alternative Catalog Numbers: 39770, 39069

Record Creation Time: 20231110T081732+0000

Record Last Update: 20241114T225959+0000

Ratings and Alerts

No rating or validation information has been found for 5-Hydroxymethylcytosine (5-hmC) antibody.

No alerts have been found for 5-Hydroxymethylcytosine (5-hmC) antibody.

Data and Source Information

Source: [Antibody Registry](#)

Usage and Citation Metrics

We found 54 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

Šimelis K, et al. (2024) Selective targeting of human TET1 by cyclic peptide inhibitors: Insights from biochemical profiling. *Bioorganic & medicinal chemistry*, 99, 117597.

Huang X, et al. (2024) ZFP281 controls transcriptional and epigenetic changes promoting mouse pluripotent state transitions via DNMT3 and TET1. *Developmental cell*, 59(4), 465.

Xu Y, et al. (2024) Placenta-derived SOD3 deletion impairs maternal behavior via alterations in FGF/FGFR-prolactin signaling axis. *Cell reports*, 43(10), 114789.

Thomas D, et al. (2024) Nitric oxide inhibits ten-eleven translocation DNA demethylases to regulate 5mC and 5hmC across the genome. *Research square*.

Yang Y, et al. (2024) Maternal high-fat diet alters Tet-mediated epigenetic regulation during heart development. *iScience*, 27(9), 110631.

Jung BC, et al. (2023) TET3 plays a critical role in white adipose development and diet-induced remodeling. *Cell reports*, 42(10), 113196.

Hsu FM, et al. (2023) TET1 facilitates specification of early human lineages including germ cells. *iScience*, 26(7), 107191.

Li Y, et al. (2023) TET2-mediated mRNA demethylation regulates leukemia stem cell homing and self-renewal. *Cell stem cell*, 30(8), 1072.

Brabson JP, et al. (2023) Oxidized mC modulates synthetic lethality to PARP inhibitors for the treatment of leukemia. *Cell reports*, 42(1), 112027.

Lee HG, et al. (2023) Site-specific R-loops induce CGG repeat contraction and fragile X gene reactivation. *Cell*, 186(12), 2593.

Tian C, et al. (2023) Culture conditions of mouse ESCs impact the tumor appearance in vivo. *Cell reports*, 42(6), 112645.

Leca J, et al. (2023) IDH2 and TET2 mutations synergize to modulate T Follicular Helper cell functional interaction with the AITL microenvironment. *Cancer cell*, 41(2), 323.

Chen S, et al. (2023) Allosterically inhibited PFKL via prostaglandin E2 withholds glucose metabolism and ovarian cancer invasiveness. *Cell reports*, 42(10), 113246.

Koch EAT, et al. (2023) Standardized Computer-Assisted Analysis of 5-hmC Immunoreactivity in Dysplastic Nevi and Superficial Spreading Melanomas. *International journal of molecular sciences*, 24(19).

Xu X, et al. (2023) Tet2 acts in the lateral habenula to regulate social preference in mice. *Cell reports*, 42(7), 112695.

Aizawa E, et al. (2023) Epigenetic regulation limits competence of pluripotent stem cell-derived oocytes. *The EMBO journal*, 42(23), e113955.

Cheng S, et al. (2022) The intrinsic and extrinsic effects of TET proteins during gastrulation. *Cell*, 185(17), 3169.

Huang X, et al. (2022) A TET1-PSPC1-Neat1 molecular axis modulates PRC2 functions in controlling stem cell bivalency. *Cell reports*, 39(10), 110928.

Pratt KJB, et al. (2022) Loss of neuronal Tet2 enhances hippocampal-dependent cognitive function. *Cell reports*, 41(6), 111612.

Levy S, et al. (2022) dCas9 fusion to computer-designed PRC2 inhibitor reveals functional TATA box in distal promoter region. *Cell reports*, 38(9), 110457.