

Resource Summary Report

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ENCODE Project Antibody validation Pol2(phosphoS2)

RRID:AB_304749

Type: Antibody

Proper Citation

Abcam Cat# ab5095, RRID:AB_304749

Antibody Information

URL: http://antibodyregistry.org/AB_304749

Proper Citation: Abcam Cat# ab5095, RRID:AB_304749

Target Antigen: POLR2A

Host Organism: rabbit

Clonality: polyclonal

Comments: Rabbit polyclonal affinity purified against peptide conjugated to KLH derived from within residues 1600 - 1700 of *S. cerevisiae* RNA polymerase II CTD repeat YSPTSPS, phosphorylated at S2. Antibody Target: POLR2A
Validation: ENCODE PROJECT validation information available

Antibody Name: ENCODE Project Antibody validation Pol2(phosphoS2)

Description: This polyclonal targets POLR2A

Target Organism: human

Antibody ID: AB_304749

Vendor: Abcam

Catalog Number: ab5095

Record Creation Time: 20250820T023524+0000

Record Last Update: 20250820T135931+0000

Ratings and Alerts

- ENCODE PROJECT External validation for lot: unknown is available under ENCODE ID: ENCAB464RLC - ENCODE <https://www.encodeproject.org/antibodies/ENCAB464RLC>

No alerts have been found for ENCODE Project Antibody validation Pol2(phosphoS2).

Data and Source Information

Source: [Antibody Registry](#)

Usage and Citation Metrics

We found 115 mentions in open access literature.

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

Mitra T, et al. (2026) MEK-dependent bioenergetic demand drives terminal CD8+ T cell exhaustion. *Immunity*.

Sahoo S, et al. (2026) RAD51C-XRCC3 complex regulates FANCM-mediated R-loop resolution to safeguard genome integrity. *Science advances*, 12(8), eaea5932.

Mao X, et al. (2026) Cytoplasmic mRNA decay by the antiviral nuclease RNase L promotes transcriptional repression. *Cell reports*, 45(3), 117028.

Huang K, et al. (2026) MRE11 proximal polyadenylation site-mediated looping impacts transcription and genomic stability. *Molecular cell*, 86(10), 1931.

Tzerpos P, et al. (2026) The transcription factor BACH1 couples chromatin priming and repression to enable macrophage plasticity and adaptation. *Immunity*.

Pan T, et al. (2026) MEN1 Promotes Ferroptosis by Disrupting CD44 Alternative Splicing to Suppress Lung Cancer. *Cancer research*, 86(1), 146.

Zhao Y, et al. (2026) H4K16ac contributes to chromatin compartment reorganization during mitotic and meiotic transitions. *Cell reports*, 45(7), 117639.

Uhl L, et al. (2026) MYC binding to nascent RNA suppresses innate immune signaling by R-loop-derived RNA-DNA hybrids. *Cell*, 189(5), 1371.

Zhang YR, et al. (2025) Deciphering transcription activity of mammalian early embryos unveils on/off of zygotic genome activation by protein translation/degradation. *Cell reports*, 44(1), 115215.

Dai P, et al. (2025) Transcription-coupled AID deamination damage depends on ELOF1-associated RNA polymerase II. *Molecular cell*, 85(7), 1280.

Allyn BM, et al. (2025) Promoter- and enhancer-dependent cohesin loading initiates chromosome looping to fold Tcrb loci for long-range recombination. *Cell reports*, 44(8),

116133.

Ge H, et al. (2025) Debranching enzyme DBR1-mediated lariat RNA turnover requires ALBA proteins in Arabidopsis. *Molecular cell*, 85(22), 4183.

Wang Z, et al. (2025) Dcr1 senses R-loops for RNAPII termination at sites of replication stress and repair pathway choice. *Molecular cell*, 85(21), 3947.

Chen S, et al. (2025) Nuclear Argonaute protein NRDE-3 switches small RNA partners during embryogenesis to mediate temporal-specific gene regulatory activity. *eLife*, 13.

Pang Y, et al. (2025) Exploiting the therapeutic vulnerability of IDH-mutant gliomas with zotiraciclib. *iScience*, 28(4), 112283.

Lu C, et al. (2025) Mediator regulates transcriptional termination through crosstalk with pre-mRNA 3' end processing factors. *Molecular cell*, 85(11), 2147.

Kirthika P, et al. (2025) Off-pore Nucleoporin sPOM121 Transcriptionally Propels β -Catenin-driven Tumor Progression and Immune Escape in Prostate Cancer. *Cancer discovery*, 15(11), 2374.

Ma HY, et al. (2025) Targeting CDK7/12/13 functional synergism reverses myofibroblast activation and ameliorates lung fibrosis. *iScience*, 28(7), 112778.

Puleo N, et al. (2025) Identification of a TNIK-CDK9 Axis as a Targetable Strategy for Platinum-Resistant Ovarian Cancer. *Molecular cancer therapeutics*, 24(4), 639.

Chen SM, et al. (2025) SLFN14 functions as a P-TEFb inhibitor to modulate the transcription of HIV-1 and cellular genes. *Science advances*, 11(51), eadt7982.