

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 107 mentions in open access literature.

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

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.

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.

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

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

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.

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.

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

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

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.

Wu L, et al. (2025) Transcription elongation factor ELOF1 is required for efficient somatic hypermutation and class switch recombination. *Molecular cell*, 85(7), 1296.

Ummethum H, et al. (2025) The CGG triplet repeat binding protein 1 counteracts R-loop induced transcription-replication stress. *EMBO reports*, 26(19), 4691.

Cheng T, et al. (2025) Transcription-replication conflict resolution by nuclear RNA interference. *Molecular cell*, 85(21), 3930.

Mitra T, et al. (2025) MEK-dependent bioenergetic demand drives terminal CD8 + T cell exhaustion. *bioRxiv : the preprint server for biology*.

Kang SW, et al. (2025) *Drosophila* peptidyl-prolyl cis/trans isomerase-like 4 regulates circadian rhythm by supporting high-amplitude oscillations of PERIOD. *iScience*, 28(5), 112457.

Versluis P, et al. (2024) Live-cell imaging of RNA Pol II and elongation factors distinguishes competing mechanisms of transcription regulation. *Molecular cell*, 84(15), 2856.

Vidal R, et al. (2024) Association with TFIIIC limits MYCN localisation in hubs of active promoters and chromatin accumulation of non-phosphorylated RNA polymerase II. *eLife*, 13.

Shen Y, et al. (2024) TBP bookmarks and preserves neural stem cell fate memory by orchestrating local chromatin architecture. *Molecular cell*.