Resource Summary Report

Generated by FDI Lab - SciCrunch.org on Apr 15, 2025

RKO

RRID:CVCL_0504
Type: Cell Line

Proper Citation

(RRID:CVCL_0504)

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_0504

Proper Citation: (RRID:CVCL_0504)

Sex: Sex unspecified

Defining Citation: PMID:2253215, PMID:2835152, PMID:6437669, PMID:7329817, PMID:7761852, PMID:7798274, PMID:7824277, PMID:8387205, PMID:9515795, PMID:9715273, PMID:11314036, PMID:12615714, PMID:16418264, PMID:16854228, PMID:17363507, PMID:18258742, PMID:20164919, PMID:20570890, PMID:20606684, PMID:22278370, PMID:22460905, PMID:24042735, PMID:24618588, PMID:24755471, PMID:25485619, PMID:25841592, PMID:25877200, PMID:25926053, PMID:25944804, PMID:25984343, PMID:26537799, PMID:26589293, PMID:27397505, PMID:28179481, PMID:28192450, PMID:28683746, PMID:28854368, PMID:29101300, PMID:29444439, PMID:30894373, PMID:30971826, PMID:31068700, PMID:31978347, PMID:34320349, PMID:35839778

Comments: Omics: Virome analysis using proteomics., Omics: Transcriptome analysis by serial analysis of gene expression (SAGE)., Omics: Transcriptome analysis by RNAseq., Omics: Transcriptome analysis by microarray., Omics: SNP array analysis., Omics: shRNA library screening., Omics: Protein expression by reverse-phase protein arrays., Omics: N-glycan profiling., Omics: miRNA expression profiling., Omics: DNA methylation analysis., Omics: Deep quantitative proteome analysis., Omics: Deep quantitative phosphoproteome analysis., Omics: Deep proteome analysis., Omics: Deep phosphoproteome analysis., Omics: Deep exome analysis., Omics: CRISPR phenotypic screen., Part of: PI3K genetic alteration cell panel (ATCC TCP-1028)., Part of: KuDOS 95 cell line panel., Part of: ERK genetic alteration cell panel (ATCC TCP-1033)., Part of: COSMIC cell lines project., Part of: Cancer Dependency Map project (DepMap) (includes Cancer Cell Line Encyclopedia - CCLE)., Part of: BRAF genetic alteration cell panel (ATCC TCP-1032).

Category: Cancer cell line

Name: RKO

Cross References: BTO:BTO_0001890, CLO:CLO_0008825, EFO:EFO_0001232, MCCL:MCC:0000401, AddexBio:C0009012/374, ArrayExpress:E-MTAB-783, ArrayExpress:E-MTAB-2706, ArrayExpress:E-MTAB-2770, ArrayExpress:E-MTAB-3610, ATCC:CRL-2577, BioGRID_ORCS_Cell_line:477, BioSample:SAMN03471682, BioSample:SAMN03472274, BioSample:SAMN10988176, cancercelllines:CVCL_0504, CCRID:1101HUM-PUMC000668, CCRID:3101HUMTCHu116, Cell_Model_Passport:SIDM01090, ChEMBL-Cells:CHEMBL3307731, ChEMBL-Targets:CHEMBL614879, CLS:305035, ColonAtlas:RKO, Cosmic:873164, Cosmic:887214, Cosmic:909698, Cosmic:948133, Cosmic:1043824, Cosmic:1131688, Cosmic:1132576, Cosmic:1132687, Cosmic:1154653, Cosmic:1184099, Cosmic:1184330, Cosmic:1187315, Cosmic:1223146, Cosmic:1303884, Cosmic:1310948, Cosmic:1312309, Cosmic:1479607, Cosmic:1537488, Cosmic:1552178, Cosmic:1676744, Cosmic:1708414, Cosmic:1805264, Cosmic:1888954, Cosmic:1995622, Cosmic:2302003, Cosmic:2550355, Cosmic:2588706, Cosmic:2646668, Cosmic:2650776, Cosmic:2667884, Cosmic:2667968, Cosmic:2668257, Cosmic:2727473, Cosmic:2787542, Cosmic:2811055, Cosmic-CLP:909698, DepMap:ACH-000943, EGA:EGAS00001000610, EGA:EGAS00001000978, ENCODE:ENCBS740UAH, ENCODE:ENCBS954LTA, GDSC:909698, GEO:GSM206538, GEO:GSM274765, GEO:GSM274766, GEO:GSM383863, GEO:GSM741254, GEO:GSM844676, GEO:GSM887541, GEO:GSM888624, GEO:GSM1346884, GEO:GSM1374850, GEO:GSM1374851, GEO:GSM1374852, GEO:GSM1448132, GEO:GSM1670380, GEO:GSM2550011, KCB:KCB 2011102YJ, LiGeA:CCLE_267, LINCS_LDP:LCL-1168, Lonza:59, MetaboLights:MTBLS227, PharmacoDB:RKO_1316_2019, PRIDE:PXD001550, PRIDE:PXD002395, PRIDE:PXD005235, PRIDE:PXD005354, PRIDE:PXD005355, PRIDE:PXD030304, Progenetix:CVCL_0504, PubChem_Cell_line:CVCL_0504, TOKU-E:3013, Ubigene:YC-C002, Wikidata:Q54950538

ID: CVCL_0504

Record Creation Time: 20250131T202444+0000

Record Last Update: 20250131T204340+0000

Ratings and Alerts

No rating or validation information has been found for RKO.

No alerts have been found for RKO.

Data and Source Information

Source: Cellosaurus

Usage and Citation Metrics

We found 93 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Pacini C, et al. (2024) A comprehensive clinically informed map of dependencies in cancer cells and framework for target prioritization. Cancer cell, 42(2), 301.

Li Q, et al. (2024) A helicase-independent role of DHX15 promotes MYC stability and acute leukemia cell survival. iScience, 27(1), 108571.

Zhao K, et al. (2024) Nerve Growth Factor Signaling Promotes Nuclear Translocation of TRAF4 to Enhance Tumor Stemness and Metastatic Dormancy Via C-Jun-mediated IL-8 Autocrine. Advanced science (Weinheim, Baden-Wurttemberg, Germany), e2414437.

Weinstein HNW, et al. (2024) RPL22 is a tumor suppressor in MSI-high cancers and a splicing regulator of MDM4. Cell reports, 43(8), 114622.

Kang ZR, et al. (2024) Deficiency of BCAT2-mediated branched-chain amino acid catabolism promotes colorectal cancer development. Biochimica et biophysica acta. Molecular basis of disease, 1870(2), 166941.

Wu S, et al. (2024) Targeting high circDNA2v levels in colorectal cancer induces cellular senescence and elicits an anti-tumor secretome. Cell reports, 43(4), 114111.

Wang Q, et al. (2024) Benzosceptrin C induces lysosomal degradation of PD-L1 and promotes antitumor immunity by targeting DHHC3. Cell reports. Medicine, 5(2), 101357.

Xu SM, et al. (2024) Synergistic anticancer activity of HSP70 and HSF1 inhibitors in colorectal cancer cells: A new strategy for combination therapy. Biochimica et biophysica acta. Molecular basis of disease, 1871(3), 167630.

Jacob J, et al. (2024) Antibody-Drug Conjugates Targeting the EGFR Ligand Epiregulin Elicit

Robust Anti-Tumor Activity in Colorectal Cancer. bioRxiv : the preprint server for biology.

Grze? M, et al. (2024) A common druggable signature of oncogenic c-Myc, mutant KRAS and mutant p53 reveals functional redundancy and competition among oncogenes in cancer. Cell death & disease, 15(8), 638.

Cheng C, et al. (2024) RPF2 and CARM1 cooperate to enhance colorectal cancer metastasis via the AKT/GSK-3? signaling pathway. Experimental cell research, 444(2), 114374.

Mandlbauer A, et al. (2024) Mime-seq 2.0: a method to sequence microRNAs from specific mouse cell types. The EMBO journal, 43(12), 2506.

Futran AS, et al. (2024) Ubiquitin-specific protease 7 inhibitors reveal a differentiated mechanism of p53-driven anti-cancer activity. iScience, 27(5), 109693.

Shin Y, et al. (2024) MMP-9-dependent proteolysis of the histone H3 N-terminal tail: a critical epigenetic step in driving oncogenic transcription and colon tumorigenesis. Molecular oncology, 18(8), 2001.

Jochems F, et al. (2024) Senolysis by ABT-263 is associated with inherent apoptotic dependence of cancer cells derived from the non-senescent state. Cell death and differentiation.

Lu M, et al. (2024) RPF2 mediates the CARM1?MYCN axis to promote chemotherapy resistance in colorectal cancer cells. Oncology reports, 51(1).

Alruwaili MM, et al. (2024) A synergistic two-drug therapy specifically targets a DNA repair dysregulation that occurs in p53-deficient colorectal and pancreatic cancers. Cell reports. Medicine, 5(3), 101434.

Wang Z, et al. (2024) CRISPR-Cas9 screening identifies INTS3 as an anti-apoptotic RNA-binding protein and therapeutic target for colorectal cancer. iScience, 27(5), 109676.

Yan C, et al. (2024) TIPE inhibits ferroptosis in colorectal cancer cells by regulating MGST1/ALOX5. Molecular cancer research : MCR.

Bao-Caamano A, et al. (2023) Epigenomic analysis reveals a unique DNA methylation program of metastasis-competent circulating tumor cells in colorectal cancer. Scientific reports, 13(1), 15401.