Resource Summary Report

Generated by FDI Lab - SciCrunch.org on Mar 29, 2025

Caco-2

RRID:CVCL_0025
Type: Cell Line

Proper Citation

(RRID:CVCL_0025)

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_0025

Proper Citation: (RRID:CVCL_0025)

Sex: Male

Defining Citation: PMID:327080, PMID:833871, PMID:2914637, PMID:3349466, PMID:3518877, PMID:6935474, PMID:7459858, PMID:7764660, PMID:8253353, PMID:8508948, PMID:9294210, PMID:10092214, PMID:10612807, PMID:10737795, PMID:11414198, PMID:11416159, PMID:11668190, PMID:12584437, PMID:14599474, PMID:15316659, PMID:15731278, PMID:15868485, PMID:16418264, PMID:16854228, PMID:18258742, PMID:20570890, PMID:20606684, PMID:20831567, PMID:21607810, PMID:23272949, PMID:23932154, PMID:24042735, PMID:24755471, PMID:25485619, PMID:25841592, PMID:25877200, PMID:25926053, PMID:25944804, PMID:25960936, PMID:26537799, PMID:26589293, PMID:26869432, PMID:28196595, PMID:28683746, PMID:29101300, PMID:29787057, PMID:30894373, PMID:31068700, PMID:31981602, PMID:33389257, PMID:34339474

Comments: 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: Protein expression by reverse-phase protein arrays., Omics: N-glycan profiling., Omics: miRNA expression profiling., Omics: Deep proteome analysis., Omics: Deep phosphoproteome analysis., Omics: Deep exome analysis., Omics: Deep antibody staining analysis., Omics: H3K4me3 ChIP-seq epigenome analysis., Omics: H3K36me3 ChIP-seq epigenome analysis., Omics: H3K27me3 ChIP-seq epigenome analysis., Omics: CTCF ChIP-seq epigenome analysis., Virology: Susceptible to infection by SARS coronavirus 2 (SARS-CoV-2) (COVID-19) (PubMed=33389257; PubMed=34339474)., Virology: Highly susceptible to infection by SARS coronavirus (SARS-CoV) (PubMed=15316659; PubMed=15731278)., Population: Caucasian., Part of: MD Anderson Cell Lines Project., Part of: ENCODE project common cell types; tier 3., Part of: Cancer Dependency Map project (DepMap) (includes Cancer Cell Line Encyclopedia - CCLE)., Part

of: AstraZeneca Colorectal cell line (AZCL) panel.

Category: Cancer cell line

Name: Caco-2

Synonyms: CaCo-2, CACO-2, Caco 2, CACO 2, CACO2, CaCo2, CaCO2, Caco2, Caco-2/ATCC, Caco-II

Cross References: BTO:BTO_0000195, CLO:CLO_0002172, CLO:CLO_0050627, EFO:EFO_0001099, MCCL:MCC:0000120, CLDB:cl614, CLDB:cl615, CLDB:cl616, CLDB:cl617, CLDB:cl618, CLDB:cl619, CLDB:cl621, CLDB:cl5174, Abcam:ab275464, AddexBio:C0009009/29, ArrayExpress:E-MTAB-2706, ATCC:HTB-37, BCRJ:0059, BioSample:SAMN03473140, BioSample:SAMN05292461, BioSample:SAMN10989600, cancercelllines:CVCL_0025, CCRID:1101HUM-PUMC000100, CCRID:1102HUM-NIFDC00087, CCRID:3101HUMSCSP5027, CCRID:3101HUMTCHu146, CCRID:4201HUM-CCTCC00153, CCRID:5301HUM-KCB07010YJ, CCTCC:GDC0153, Cell_Model_Passport:SIDM00891, ChEMBL-Cells:CHEMBL3307519, ChEMBL-Targets:CHEMBL614058, CLS:300137, ColonAtlas:CACO2, Cosmic:720340, Cosmic:873696, Cosmic:875297, Cosmic:876709, Cosmic:887244, Cosmic:889531, Cosmic:948127, Cosmic:948829, Cosmic:983736, Cosmic:995392, Cosmic:1043805, Cosmic:1122320, Cosmic:1132564, Cosmic:1132694, Cosmic:1184081, Cosmic:1187299, Cosmic:1310931, Cosmic:1466811, Cosmic:1479620, Cosmic:1524334, Cosmic:1552180, Cosmic:1676742, Cosmic:1708415, Cosmic:1803940, Cosmic:1933015, Cosmic:2036652, Cosmic:2145574, Cosmic:2156940, Cosmic:2301543, Cosmic:2301964, Cosmic:2667879, Cosmic:2800568, DepMap:ACH-000003, DSMZ:ACC-169, DSMZCellDive:ACC-169, ECACC:09042001, ECACC:86010202, EGA:EGAS00001000610, EGA:EGAS00001002554, ENCODE:ENCBS311PHE, ENCODE:ENCBS390JMI, ENCODE:ENCBS391ENC, ENCODE:ENCBS530YXL, ENCODE:ENCBS700RKG, ENCODE:ENCBS890JZY, FCS-free:192-2-378-1-3-3, GEO:GSM206450, GEO:GSM274711, GEO:GSM274712, GEO:GSM274725, GEO:GSM383861, GEO:GSM472900, GEO:GSM472933, GEO:GSM513908, GEO:GSM514182, GEO:GSM741244, GEO:GSM749689, GEO:GSM749691, GEO:GSM749748, GEO:GSM784006, GEO:GSM845394, GEO:GSM843481, GEO:GSM843482, GEO:GSM945162, GEO:GSM945203, GEO:GSM945206, GEO:GSM945236, GEO:GSM1006210, GEO:GSM1006211, GEO:GSM1006212, GEO:GSM1346866, GEO:GSM1374426, GEO:GSM1448160, GEO:GSM2549989, IARC_TP53:21749, IBRC:C10094, ICLC:HTL97023, IZSLER:BS TCL 87, KCB:KCB 200710YJ, KCLB:30037.1, LINCS_LDP:LCL-1170, Lonza:36, MeSH:D018938, MetaboLights:MTBLS227, MetaboLights:MTBLS328, NCBI_Iran:C139, PharmacoDB:Caco2_161_2019, PRIDE:PXD001550, PRIDE:PXD005354, PRIDE:PXD005355, PRIDE:PXD018357, PRIDE:PXD019645, PRIDE:PXD023760, Progenetix:CVCL_0025, PubChem_Cell_line:CVCL_0025, RCB:RCB0988, TOKU-E:762, Ubigene:YC-D003, Wikidata:Q5016050

ID: CVCL_0025

Record Creation Time: 20250131T194636+0000

Record Last Update: 20250131T195142+0000

Ratings and Alerts

No rating or validation information has been found for Caco-2.

No alerts have been found for Caco-2.

Data and Source Information

Source: Cellosaurus

Usage and Citation Metrics

We found 9054 mentions in open access literature.

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

Mottawea W, et al. (2025) Multi-level analysis of gut microbiome extracellular vesicles-host interaction reveals a connection to gut-brain axis signaling. Microbiology spectrum, 13(2), e0136824.

Slaninová V, et al. (2024) The Hippo pathway terminal effector TAZ/WWTR1 mediates oxaliplatin sensitivity in p53 proficient colon cancer cells. BMC cancer, 24(1), 587.

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.

Bai Y, et al. (2024) Shaping immune landscape of colorectal cancer by cholesterol metabolites. EMBO molecular medicine, 16(2), 334.

Tian S, et al. (2024) Design, performance, processing, and validation of a pooled CRISPR perturbation screen for bacterial toxins. Nature protocols.

Zhang L, et al. (2024) ACE2-independent sarbecovirus cell entry can be supported by TMPRSS2-related enzymes and can reduce sensitivity to antibody-mediated neutralization. PLoS pathogens, 20(11), e1012653.

Mitrofanova O, et al. (2024) Bioengineered human colon organoids with in vivo-like cellular complexity and function. Cell stem cell, 31(8), 1175.

Dong B, et al. (2024) NK Receptor Signaling Lowers TCR Activation Threshold, Enhancing Selective Recognition of Cancer Cells by TAA-Specific CTLs. Cancer immunology research, 12(10), 1421.

Yang Q, et al. (2024) Reduced representative methylome profiling of cell-free DNA for breast cancer detection. Clinical epigenetics, 16(1), 33.

Mao L, et al. (2024) Olgotrelvir, a dual inhibitor of SARS-CoV-2 Mpro and cathepsin L, as a standalone antiviral oral intervention candidate for COVID-19. Med (New York, N.Y.), 5(1), 42.

Nanlohy NM, et al. (2024) Exploring host-commensal-pathogen dynamics in cell line and organotypic human intestinal epithelial models. iScience, 27(5), 109771.

Meng C, et al. (2024) Chlorogenic acid regulates the expression of NPC1L1 and HMGCR through PXR and SREBP2 signaling pathways and their interactions with HSP90 to maintain cholesterol homeostasis. Phytomedicine : international journal of phytotherapy and phytopharmacology, 123, 155271.

Pearson GJ, et al. (2024) ER-export and ARFRP1/AP-1-dependent delivery of SARS-CoV-2 Envelope to lysosomes controls late stages of viral replication. Science advances, 10(14), eadl5012.

Liu C, et al. (2024) HuR promotes triglyceride synthesis and intestinal fat absorption. Cell reports, 43(5), 114238.

Carregari VC, et al. (2024) Diving into the proteomic atlas of SARS-CoV-2 infected cells. Scientific reports, 14(1), 7375.

Zhang L, et al. (2024) SARS-CoV-2 BA.2.86 enters lung cells and evades neutralizing antibodies with high efficiency. Cell, 187(3), 596.

Huang J, et al. (2024) A Gene-Switch Platform Interfacing with Reactive Oxygen Species Enables Transcription Fine-Tuning by Soluble and Volatile Pharmacologics and Food Additives. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 11(20), e2306333.

Zhu X, et al. (2024) The feedback loop of EFTUD2/c-MYC impedes chemotherapeutic efficacy by enhancing EFTUD2 transcription and stabilizing c-MYC protein in colorectal cancer. Journal of experimental & clinical cancer research : CR, 43(1), 7.

Tian D, et al. (2024) Bacterial muropeptides promote OXPHOS and suppress mitochondrial stress in mammals. Cell reports, 43(4), 114067.

Knippler CM, et al. (2024) Bisbiguanide analogs induce mitochondrial stress to inhibit lung cancer cell invasion. iScience, 27(4), 109591.