

Resource Summary Report

Generated by [dkNET](#) on Aug 17, 2026

p53HCT116

RRID:CVCL_S744

Type: Cell Line

Proper Citation

RRID:CVCL_S744

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_S744

Proper Citation: RRID:CVCL_S744

Description: Cell line p53HCT116 is a Cancer cell line with a species of origin Homo sapiens (Human)

Sex: Male

Disease: Colon carcinoma

Defining Citation: [PMID:9822382](#), [PMID:19927377](#)

Comments: Population: Caucasian.

Category: Cancer cell line

Organism: Homo sapiens (Human)

Name: p53HCT116

Synonyms: P53HCT116, p53-/- HCT116, p53(-/-) HCT-116, HCT116-p53-/-, HCT116-p53

Cross References: cancercellines:CVCL_S744, Cosmic:1132690, SKY/M-FISH/CGH:1688, SKY/M-FISH/CGH:2781, Wikidata:Q54937306

ID: CVCL_S744

Hierarchy: cvcl_0291

Record Creation Time: 20220427T221406+0000

Record Last Update: 20260815T235444+0000

Ratings and Alerts

No rating or validation information has been found for p53HCT116.

No alerts have been found for p53HCT116.

Data and Source Information

Source: [Cellosaurus](#)

Usage and Citation Metrics

We found 481 mentions in open access literature.

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

Fujiyama H, et al. (2026) Diamond-Blackfan anemia gene product RPS19 counteracts SET to maintain p53 transcriptional activity and tumor suppressor function. Cell reports, 45(5), 117333.

Lieu DJ, et al. (2025) A bacterial genotoxin reveals a p53-proteasome-LC3 regulatory axis that drives the suppression of autophagy in cells experiencing sublethal DNA damage. iScience, 28(4), 112118.

Hu SS, et al. (2025) PATTY corrects open chromatin bias for improved bulk and single-cell CUT&Tag profiling. bioRxiv : the preprint server for biology.

Su Z, et al. (2025) Regulation of epigenetics and chromosome structure by human ORC2. Cell reports, 44(6), 115816.

Lerma Clavero A, et al. (2023) MDM2 inhibitors, nutlin-3a and navtemadelin, retain efficacy in human and mouse cancer cells cultured in hypoxia. Scientific reports, 13(1), 4583.

Yang Y, et al. (2023) 5-Fluorouracil Suppresses Colon Tumor through Activating the p53-Fas Pathway to Sensitize Myeloid-Derived Suppressor Cells to FasL+ Cytotoxic T Lymphocyte Cytotoxicity. Cancers, 15(5).

Youmbi LM, et al. (2023) Cytotoxicity of the methanol extracts and compounds of Brucea antidysenterica (Simaroubaceae) towards multifactorial drug-resistant human cancer cell lines. BMC complementary medicine and therapies, 23(1), 48.

Speina E, et al. (2023) Dimeric Benzodiazepines as Peptide Mimetics to Overcome p53-Dependent Drug Resistance of Tumors. Biomolecules, 13(2).

Al Hadeethi S, et al. (2023) Mannose Inhibits the Pentose Phosphate Pathway in Colorectal Cancer and Enhances Sensitivity to 5-Fluorouracil Therapy. Cancers, 15(8).

Yang H, et al. (2023) ATF2 loss promotes 5-FU resistance in colon cancer cells via activation of the ATR-Chk1 damage response pathway. BMC cancer, 23(1), 480.

Barcherini V, et al. (2023) Metabolism-Guided Optimization of Tryptophanol-Derived Isoindolinone p53 Activators. *Pharmaceuticals (Basel, Switzerland)*, 16(2).

Barczak W, et al. (2023) Long non-coding RNA-derived peptides are immunogenic and drive a potent anti-tumour response. *Nature communications*, 14(1), 1078.

Han Y, et al. (2023) Dual roles of TRIM3 in colorectal cancer by retaining p53 in the cytoplasm to decrease its nuclear expression. *Cell death discovery*, 9(1), 85.

Gan Y, et al. (2023) UTP11 deficiency suppresses cancer development via nucleolar stress and ferroptosis. *Redox biology*, 62, 102705.

Yamaguchi K, et al. (2023) Bromodomain protein BRD8 regulates cell cycle progression in colorectal cancer cells through a TIP60-independent regulation of the pre-RC complex. *iScience*, 26(4), 106563.

Kim H, et al. (2023) Transferrin Receptor-Mediated Iron Uptake Promotes Colon Tumorigenesis. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 10(10), e2207693.

Indorato RL, et al. (2022) Drug resistance dependent on allostery: A P-loop rigor Eg5 mutant exhibits resistance to allosteric inhibition by STLC. *Frontiers in oncology*, 12, 965455.

Pan M, et al. (2022) Glutamine deficiency in solid tumor cells confers resistance to ribosomal RNA synthesis inhibitors. *Nature communications*, 13(1), 3706.

Ko HM, et al. (2022) The Antitumor Effect of Timosaponin A3 through c-Myc Inhibition in Colorectal Cancer Cells and Combined Treatment Effect with 5-FU or Doxorubicin. *International journal of molecular sciences*, 23(19).

Pan Y, et al. (2022) Nuclear Beclin 1 Destabilizes Retinoblastoma Protein to Promote Cell Cycle Progression and Colorectal Cancer Growth. *Cancers*, 14(19).