

Resource Summary Report

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SMMC-7721

RRID:CVCL_0534

Type: Cell Line

Proper Citation

Ubigen Cat# YC-C056, RRID:CVCL_0534

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_0534

Proper Citation: Ubigen Cat# YC-C056, RRID:CVCL_0534

Description: Cell line SMMC-7721 is a Cancer cell line with a species of origin Homo sapiens (Human)

Sex: Female

Disease: Human papillomavirus-related endocervical adenocarcinoma

Defining Citation: [PMID:12717835](#), [PMID:17552011](#), [PMID:23505090](#), [PMID:26116706](#), [PMID:28807831](#)

Comments: Miscellaneous: Formerly the CCRID database had 3 entries describing this cell line (3111C0001CCC000087, 3131C0001000700052, 3142C0001000000063). They were one of the sources for the STR profile of this entry., Population: African American., Problematic cell line: Contaminated. Shown to be a HeLa derivative (PubMed=26116706; PubMed=28807831). Originally thought to originate from a hepatocellular carcinoma..

Category: Cancer cell line

Organism: Homo sapiens (Human)

Name: SMMC-7721

Synonyms: SMMC 7721, SMMC7721, H7721, H-7721

Cross References: BTO:BTO_0003227, MCCL:MCC:0000433, ChEMBL-Cells:ChEMBL3308059, ChEMBL-Targets:ChEMBL613831, Cosmic:852773, Cosmic:1060081, Cosmic:1499248, Cosmic:2773184, GEO:GSM501779, GEO:GSM936777, GEO:GSM1374884, PubChem_Cell_line:CVCL_0534, Ubigen:YC-C056, Wikidata:Q54954976

ID: CVCL_0534

Vendor: Ubigene

Catalog Number: YC-C056

Hierarchy: cvcl_0030

Record Creation Time: 20250130T072810+0000

Record Last Update: 20260830T001733+0000

Ratings and Alerts

No rating or validation information has been found for SMMC-7721.

Warning: Problematic cell line: Contaminated. Shown to be a HeLa derivative (PubMed=26116706; PubMed=28807831). Originally thought to originate from a hepatocellular carcinoma.

Registration: International Cell Line Authentication Committee, Register of Misidentified Cell Lines; ICLAC-00554.

Miscellaneous: Formerly the CCRID database had 3 entries describing this cell line (3111C0001CCC000087, 3131C0001000700052, 3142C0001000000063). They were one of the sources for the STR profile of this entry., Population: African American., Problematic cell line: Contaminated. Shown to be a HeLa derivative (PubMed=26116706; PubMed=28807831). Originally thought to originate from a hepatocellular carcinoma..

Data and Source Information

Source: [CelloSaurus](#)

Usage and Citation Metrics

We found 1499 mentions in open access literature.

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

Ning XY, et al. (2026) Four New Triterpenoids From *Rubus pirifolius* Smith. Chemistry & biodiversity, 23(2), e03037.

Sun JW, et al. (2026) Synergistic Induction of Apoptosis by Apocytochrome C and Sodium Aescinate Is Mediated by Excessive Autophagy via the AKT-mTOR-TFEB Signaling Axis. Cell biochemistry and function, 44(4), e70214.

Liu Y, et al. (2025) Hepatitis B virus core/capsid protein induces hepatocellular carcinoma progression via long non-coding RNA KCNQ1OT1/miR-335-5p/CDC7 axis. Translational cancer research, 14(6), 3319.

Chen Z, et al. (2024) SIGLEC15, negatively correlated with PD-L1 in HCC, could induce CD8⁺ T cell apoptosis to promote immune evasion. *Oncoimmunology*, 13(1), 2376264.

Mei Y, et al. (2024) IL-37 dampens immunosuppressive functions of MDSCs via metabolic reprogramming in the tumor microenvironment. *Cell reports*, 43(3), 113835.

Zhang C, et al. (2024) Re-evaluation of the relationship between PrPc expression and patient prognosis in primary esophageal squamous cell carcinoma and primary hepatocellular carcinoma. *Scientific reports*, 14(1), 31122.

Yao Z, et al. (2023) The Role of miR-1183: A Potential Suppressor in Hepatocellular Carcinoma via Regulating Splicing Factor SRSF1. *Journal of hepatocellular carcinoma*, 10, 1169.

Xu S, et al. (2023) Sustained release of therapeutic gene by injectable hydrogel for hepatocellular carcinoma. *International journal of pharmaceutics: X*, 6, 100195.

Zhang G, et al. (2023) Mitochondrial UQCC3 controls embryonic and tumor angiogenesis by regulating VEGF expression. *iScience*, 26(8), 107370.

Weiskirchen R, et al. (2023) Research reporting guidelines for cell lines: more than just a recommendation. *Annals of translational medicine*, 11(12), 421.

Li G, et al. (2023) SAA1 identified as a potential prediction biomarker for metastasis of hepatocellular carcinoma via multi-omics approaches. *Frontiers in oncology*, 13, 1138995.

Sun L, et al. (2023) Molecular subtype identification and signature construction based on Golgi apparatus-related genes for better prediction prognosis and immunotherapy response in hepatocellular carcinoma. *Frontiers in immunology*, 14, 1113455.

Xu J, et al. (2023) Hyaluronidase-trigger nanocarriers for targeted delivery of anti-liver cancer compound. *RSC advances*, 13(16), 11160.

Huang Y, et al. (2023) Novel Gene Signatures Promote Epithelial-Mesenchymal Transition (EMT) in Glucose Deprivation-Based Microenvironment to Predict Recurrence-Free Survival in Hepatocellular Carcinoma. *Journal of oncology*, 2023, 6114976.

Zhuo H, et al. (2023) RP11-40C6.2 Inactivates Hippo Signaling by Attenuating YAP1 Ubiquitylation in Hepatitis B Virus-associated Hepatocellular Carcinoma. *Journal of clinical and translational hepatology*, 11(2), 323.

Wang X, et al. (2023) PD-1 blocking strategy for enhancing the anti-tumor effect of CAR T cells targeted CD105. *Heliyon*, 9(1), e12688.

Long J, et al. (2023) Three New Benzophenone Derivatives from *Selaginella tamariscina*. *Molecules (Basel, Switzerland)*, 28(12).

Yan XX, et al. (2023) Cytotoxic and pro-apoptotic effects of botanical drugs derived from the indigenous cultivated medicinal plant *Paris polyphylla* var. *yunnanensis*. *Frontiers in pharmacology*, 14, 1100825.

Yang Y, et al. (2023) Proteomics and Metabolomics Analysis Reveals the Toxicity of ZnO Quantum Dots on Human SMMC-7721 Cells. *International journal of nanomedicine*, 18,

277.

Zhao ZZ, et al. (2023) Pyrrole alkaloids from the fruiting bodies of edible mushroom *Lentinula edodes*. RSC advances, 13(27), 18223.