

Resource Summary Report

Generated by [dkNET](#) on Sep 6, 2026

MKN28

RRID:CVCL_1416

Type: Cell Line

Proper Citation

RRID:CVCL_1416

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_1416

Proper Citation: RRID:CVCL_1416

Description: Cell line MKN28 is a Cancer cell line with a species of origin Homo sapiens (Human)

Sex: Male

Disease: Gastric tubular adenocarcinoma

Defining Citation: [PMID:758928](#), [PMID:1370612](#), [PMID:1933850](#), [PMID:3962675](#), [PMID:3986962](#), [PMID:6862145](#), [PMID:9023415](#), [PMID:9290701](#), [PMID:11107048](#), [PMID:11314020](#), [PMID:15723654](#), [PMID:15767549](#), [PMID:15900046](#), [PMID:15901131](#), [PMID:20143388](#), [PMID:20164919](#), [PMID:22336246](#), [PMID:22490663](#), [PMID:23671654](#), [PMID:25960936](#), [PMID:27397505](#), [PMID:29435981](#), [PMID:29717028](#), [PMID:30894373](#), [PMID:30971826](#), [PMID:35839778](#)

Comments: Population: Japanese., Part of: JFCR45 cancer cell line panel., Part of: JFCR39 cancer cell line panel., Part of: COSMIC cell lines project., Part of: Cancer Dependency Map project (DepMap) (includes Cancer Cell Line Encyclopedia - CCLE)., Problematic cell line: Contaminated. Shown to be a MKN74 derivative (PubMed=20143388)..

Category: Cancer cell line

Organism: Homo sapiens (Human)

Name: MKN28

Synonyms: MKN-28, MKN 28

Cross References: BTO:BTO_0002381, CLO:CLO_0037142, EFO:EFO_0002831, ABM:T9192, ArrayExpress:E-MTAB-783, ArrayExpress:E-MTAB-3610,

BioGRID_ORCS_Cell_line:944, BioSample:SAMN03151847, cancercellines:CVCL_1416, Cell_Model_Passport:SIDM00260, CGH-DB:119-1, CGH-DB:9021-4, ChEMBL-Cells:ChEMBL3307602, ChEMBL-Targets:ChEMBL614353, Cosmic:801338, Cosmic:848146, Cosmic:848371, Cosmic:873710, Cosmic:875905, Cosmic:877041, Cosmic:887249, Cosmic:888826, Cosmic:897534, Cosmic:908139, Cosmic:918496, Cosmic:922694, Cosmic:926113, Cosmic:968348, Cosmic:983726, Cosmic:1066230, Cosmic:1067208, Cosmic:1090460, Cosmic:1093298, Cosmic:1223588, Cosmic:1436025, Cosmic:1460710, Cosmic:1482081, Cosmic:1627264, Cosmic:1995509, Cosmic:2036660, Cosmic:2069778, Cosmic:2823226, Cosmic-CLP:908139, DepMap:ACH-002161, EGA:EGAS00001000978, GDSC:908139, GEO:GSM562396, GEO:GSM1670112, IARC_TP53:972, IARC_TP53:21505, JCRB:FDSC0011, JCRB:JCRB0253, JCRB:NIHS0324, JCRB:NIHS0325, KCLB:80102, LINCS_LDP:LCL-1922, PharmacDB:MKN28_937_2019, PRIDE:PXD030304, Progenetix:CVCL_1416, PubChem_Cell_line:CVCL_1416, RCB:RCB1000, Wikidata:Q54905823

ID: CVCL_1416

Hierarchy: cvcl_2791

Record Creation Time: 20220427T220810+0000

Record Last Update: 20260905T181149+0000

Ratings and Alerts

No rating or validation information has been found for MKN28.

Warning: Problematic cell line: Contaminated. Shown to be a MKN74 derivative (PubMed=20143388).

Registration: International Cell Line Authentication Committee, Register of Misidentified Cell Lines; ICLAC-00328.

Population: Japanese., Part of: JFCR45 cancer cell line panel., Part of: JFCR39 cancer cell line panel., Part of: COSMIC cell lines project., Part of: Cancer Dependency Map project (DepMap) (includes Cancer Cell Line Encyclopedia - CCLE)., Problematic cell line: Contaminated. Shown to be a MKN74 derivative (PubMed=20143388).. **Warning:**
Discontinued: JCRB; FDSC0011

Population: Japanese., Part of: JFCR45 cancer cell line panel., Part of: JFCR39 cancer cell line panel., Part of: COSMIC cell lines project., Part of: Cancer Dependency Map project (DepMap) (includes Cancer Cell Line Encyclopedia - CCLE)., Problematic cell line: Contaminated. Shown to be a MKN74 derivative (PubMed=20143388).. **Warning:**
Discontinued: JCRB; NIHS0324

Population: Japanese., Part of: JFCR45 cancer cell line panel., Part of: JFCR39 cancer cell line panel., Part of: COSMIC cell lines project., Part of: Cancer Dependency Map project (DepMap) (includes Cancer Cell Line Encyclopedia - CCLE)., Problematic cell line: Contaminated. Shown to be a MKN74 derivative (PubMed=20143388).. **Warning:**
Discontinued: RCB; RCB1000

Population: Japanese., Part of: JFCR45 cancer cell line panel., Part of: JFCR39 cancer cell line panel., Part of: COSMIC cell lines project., Part of: Cancer Dependency Map project (DepMap) (includes Cancer Cell Line Encyclopedia - CCLE)., Problematic cell line: Contaminated. Shown to be a MKN74 derivative (PubMed=20143388).. **Warning:**

Discontinued: JCRB; NIHS0325

Population: Japanese., Part of: JFCR45 cancer cell line panel., Part of: JFCR39 cancer cell line panel., Part of: COSMIC cell lines project., Part of: Cancer Dependency Map project (DepMap) (includes Cancer Cell Line Encyclopedia - CCLE)., Problematic cell line: Contaminated. Shown to be a MKN74 derivative (PubMed=20143388)..

Data and Source Information

Source: [Cellosaurus](#)

Usage and Citation Metrics

We found 17 mentions in open access literature.

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

Shen X, et al. (2026) A novel circSLIT2-encoded SLIT2 isoform suppresses neural invasion in gastric cancer. *Oncogene*, 45(31), 3181.

Fan R, et al. (2026) Integrated Electroporated-Lysis Electrochemical Platform Enables Sensitive and Rapid EV Protein and miRNA Profiling Based on Multiplex-Responsive CRISPR/Cas12a. *Small (Weinheim an der Bergstrasse, Germany)*, e13331.

Wei D, et al. (2026) OSMR coordinates a self-perpetuating circuit linking chemoresistance and neutrophil-driven immunosuppression in gastric cancer. *Neoplasia (New York, N.Y.)*, 73, 101279.

Lu Y, et al. (2026) GAL3ST1-Mediated Histone Tyrosine Sulfation Induced by Cancer-Associated Fibroblasts Promotes Gastric Cancer Metastasis. *Cancer research*, 86(10), 2429.

Bhat N, et al. (2026) Enhancing the antitumor efficacy using a combination of FGFR4 Inhibitor (H3B-6527) and oxaliplatin in gastric cancer. *Neoplasia (New York, N.Y.)*, 71, 101257.

Lin GT, et al. (2025) Combining Apatinib and Oxaliplatin Remodels the Immunosuppressive Tumor Microenvironment and Sensitizes Desert-Type Gastric Cancer to Immunotherapy. *Cancer research*, 85(11), 2117.

Hong L, et al. (2024) Abnormal arginine synthesis confers worse prognosis in patients with middle third gastric cancer. *Cancer cell international*, 24(1), 6.

Anthofer M, et al. (2024) Immune evasion by proteolytic shedding of natural killer group 2, member D ligands in *Helicobacter pylori* infection. *Frontiers in immunology*, 15, 1282680.

Hu C, et al. (2024) Proteome-based molecular subtyping and therapeutic target prediction in gastric cancer. *Molecular oncology*, 18(6), 1437.

Yu J, et al. (2023) VPS35 promotes cell proliferation via EGFR recycling and enhances EGFR inhibitors response in gastric cancer. *EBioMedicine*, 89, 104451.

Song Y, et al. (2023) Downregulation of miR-7 and miR-153 is involved in Helicobacter pylori CagA induced gastric carcinogenesis and progression. International journal of oncology, 63(1).

Gong Z, et al. (2023) LncRNA LINC01094 Promotes Cells Proliferation and Metastasis through the PTEN/AKT Pathway by Targeting AZGP1 in Gastric Cancer. Cancers, 15(4).

Zhao J, et al. (2023) Separation and single-cell analysis for free gastric cancer cells in ascites and peritoneal lavages based on microfluidic chips. EBioMedicine, 90, 104522.

Toh PJY, et al. (2023) Optogenetic control of YAP can enhance the rate of wound healing. Cellular & molecular biology letters, 28(1), 39.

Li F, et al. (2021) Identification of ARGLU1 as a potential therapeutic target for gastric cancer based on genome-wide functional screening data. EBioMedicine, 69, 103436.

Huang F, et al. (2021) Circular RNA Hsa_circRNA_101996 promotes the development of Gastric Cancer via Upregulating Matrix Metalloproteinases-2/Matrix Metalloproteinases-9 through MicroRNA-143/Ten-eleven translocation-2 Pathway. Journal of Cancer, 12(22), 6665.

Tegtmeyer N, et al. (2017) Helicobacter pylori Employs a Unique Basolateral Type IV Secretion Mechanism for CagA Delivery. Cell host & microbe, 22(4), 552.