

Resource Summary Report

Generated by [NIF](#) on Sep 13, 2026

MKN74

RRID:CVCL_2791

Type: Cell Line

Proper Citation

RRID:CVCL_2791

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_2791

Proper Citation: RRID:CVCL_2791

Description: Cell line MKN74 is a Cancer cell line with a species of origin Homo sapiens (Human)

Sex: Male

Disease: Gastric tubular adenocarcinoma

Defining Citation: [PMID:1370612](#), [PMID:1933850](#), [PMID:3962675](#), [PMID:6862145](#), [PMID:9290701](#), [PMID:11107048](#), [PMID:11314020](#), [PMID:15723654](#), [PMID:15767549](#), [PMID:15900046](#), [PMID:20215515](#), [PMID:22336246](#), [PMID:22460905](#), [PMID:24587255](#), [PMID:24807215](#), [PMID:25343454](#), [PMID:25485619](#), [PMID:25877200](#), [PMID:25960936](#), [PMID:26589293](#), [PMID:28196595](#), [PMID:29435981](#), [PMID:30894373](#), [PMID:31068700](#)

Comments: Population: Japanese., Part of: MD Anderson Cell Lines Project., Part of: JFCR45 cancer cell line panel., Part of: JFCR39 cancer cell line panel., Part of: Cancer Dependency Map project (DepMap) (includes Cancer Cell Line Encyclopedia - CCLE).

Category: Cancer cell line

Organism: Homo sapiens (Human)

Name: MKN74

Synonyms: MKN-74, MKN 74

Cross References: BTO:BTO_0002383, CLO:CLO_0050798, EFO:EFO_0002834, ArrayExpress:E-MTAB-2706, ArrayExpress:E-MTAB-2770, BioSample:SAMN01821701, BioSample:SAMN03473122, BioSample:SAMN10987828, cancercellines:CVCL_2791, Cell_Model_Passport:SIDM00248, CGH-DB:121-1, CGH-DB:9023-4, ChEMBL-Cells:ChEMBL3307287, ChEMBL-Targets:ChEMBL614048, CLS:300490,

Cosmic:685597, Cosmic:801340, Cosmic:848148, Cosmic:848372, Cosmic:873712, Cosmic:877043, Cosmic:887253, Cosmic:888828, Cosmic:897536, Cosmic:918498, Cosmic:922695, Cosmic:926115, Cosmic:983728, Cosmic:1007603, Cosmic:1067209, Cosmic:1090462, Cosmic:1093300, Cosmic:1122338, Cosmic:1187285, Cosmic:1223590, Cosmic:1436027, Cosmic:1460709, Cosmic:1477424, Cosmic:1518244, Cosmic:2484974, Cosmic:2807635, DepMap:ACH-000758, EGA:EGAS00001000610, GEO:GSM562418, GEO:GSM827533, GEO:GSM844609, GEO:GSM887325, GEO:GSM888401, GEO:GSM1374682, IARC_TP53:21642, IARC_TP53:30196, JCRB:JCRB0255, KCLB:80104, LiGeA:CCLF_606, LINCSP_LDP:LCL-1536, PharmacDB:MKN74_940_2019, Progenetix:CVCL_2791, PubChem_Cell_line:CVCL_2791, RCB:RCB1002, Wikidata:Q54905833

ID: CVCL_2791

Record Creation Time: 20220427T220810+0000

Record Last Update: 20260913T004903+0000

Ratings and Alerts

No rating or validation information has been found for MKN74.

No alerts have been found for MKN74.

Data and Source Information

Source: [CelloSaurus](#)

Usage and Citation Metrics

We found 185 mentions in open access literature.

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

Zhong B, et al. (2026) Targeting the SOX9/TIMP1 Axis with iRGD-Conjugated Nanoplatfrom Enhances Dendritic Cell Function and Photodynamic Immunotherapy in Gastric Cancer. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 13(3), e10500.

Løchen AA, et al. (2026) Interaction of HS1BP3 with cortactin modulates TKS5 localisation, cell secretion and cancer malignancy. Molecular oncology.

Pan G, et al. (2026) MTSS1-dependent ubiquitin modifications mediated by FBXO44 remodel the actin cytoskeleton to promote gastric cancer progression. Molecular cancer, 25(1).

Cui X, et al. (2026) KYNU in Gastric Cancer Cells Promotes Tumor Progression by Influencing Macrophage Polarization Via PF4. Cancer science.

- Mano Y, et al. (2025) DNA-hypermethylated human gastric cancer circumvents apoptosis in the absence of TP53 mutation. *The Journal of pathology*, 267(4), 435.
- Ma J, et al. (2025) Machine learning-based development of a cytotoxicity prediction model for NK cell therapy in cancers. *Cellular oncology (Dordrecht, Netherlands)*, 48(6), 1837.
- Zenz T, et al. (2025) Acquired vulnerability against EGF receptor inhibition in gastric cancer promoted by class I histone deacetylase inhibitor entinostat. *Neoplasia (New York, N.Y.)*, 60, 101121.
- Zenz T, et al. (2025) The Histone Deacetylase Inhibitor Entinostat Mediates HER2 Downregulation in Gastric Cancer, Providing the Basis for Its Particular Efficacy in HER2-Amplified Tumors and in Combination Therapies. *Cancer research and treatment*, 57(3), 781.
- Adachi Y, et al. (2025) Enhancing the efficacy of near-infrared photoimmunotherapy through intratumoural delivery of CD44-targeting antibody-photoabsorber conjugates. *EBioMedicine*, 112, 105566.
- Lorenz L, et al. (2024) Vorinostat Treatment of Gastric Cancer Cells Leads to ROS-Induced Cell Inhibition and a Complex Pattern of Molecular Alterations in Nrf2-Dependent Genes. *Pharmaceuticals (Basel, Switzerland)*, 17(8).
- Horie M, et al. (2024) Exosomes secreted by ST3GAL5high cancer cells promote peritoneal dissemination by establishing a premetastatic microenvironment. *Molecular oncology*, 18(1), 21.
- Wei Q, et al. (2024) Spatiotemporal Quantification of HER2-targeting Antibody-Drug Conjugate Bystander Activity and Enhancement of Solid Tumor Penetration. *Clinical cancer research : an official journal of the American Association for Cancer Research*, 30(5), 984.
- Sasahara M, et al. (2024) Therapeutic antibody targeting natriuretic peptide receptor 1 inhibits gastric cancer growth via BCL-2-mediated intrinsic apoptosis. *International journal of cancer*, 154(7), 1272.
- Yang Y, et al. (2024) The regulatory relationship between NAMPT and PD-L1 in cancer and identification of a dual-targeting inhibitor. *EMBO molecular medicine*, 16(4), 885.
- Rodina A, et al. (2023) Systems-level analyses of protein-protein interaction network dysfunctions via epichaperomics identify cancer-specific mechanisms of stress adaptation. *Nature communications*, 14(1), 3742.
- São José C, et al. (2023) 3D Chromatin Architecture Re-Wiring at the CDH3/CDH1 Loci Contributes to E-Cadherin to P-Cadherin Expression Switch in Gastric Cancer. *Biology*, 12(6).
- Huang J, et al. (2023) lncRNA ELFN1-AS1 upregulates TRIM29 by suppressing miR-211-3p to promote gastric cancer progression. *Acta biochimica et biophysica Sinica*, 55(3), 484.

Poças J, et al. (2023) Syndecan-4 is a maestro of gastric cancer cell invasion and communication that underscores poor survival. *Proceedings of the National Academy of Sciences of the United States of America*, 120(20), e2214853120.

Eom JW, et al. (2023) Lutein Induces Reactive Oxygen Species-Mediated Apoptosis in Gastric Cancer AGS Cells via NADPH Oxidase Activation. *Molecules (Basel, Switzerland)*, 28(3).

Kim TW, et al. (2023) Targeting ER Stress with Saikosaponin A to Overcome Resistance under Radiation in Gastric Cancer Cells. *International journal of molecular sciences*, 24(6).