

Resource Summary Report

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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, LINCS_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: 20260829T234634+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 [dkNET](#) .

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.

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).

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

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) 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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).
- 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.

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).

Nakamura S, et al. (2023) RhoA G17E/Vav1 Signaling Induces Cancer Invasion via Matrix Metalloproteinase-9 in Gastric Cancer. *Technology in cancer research & treatment*, 22, 15330338221146024.