

Resource Summary Report

Generated by [RRID](#) on Sep 8, 2026

LLC-PK1

RRID:CVCL_0391

Type: Cell Line

Proper Citation

RRID:CVCL_0391

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_0391

Proper Citation: RRID:CVCL_0391

Description: Cell line LLC-PK1 is a Spontaneously immortalized cell line with a species of origin *Sus scrofa* (Pig)

Sex: Male

Defining Citation: [PMID:828141](#), [PMID:8097873](#), [PMID:14449902](#), [PMID:17337088](#), [PMID:17389150](#), [PMID:19508353](#), [PMID:20555413](#), [PMID:23460964](#), [PMID:33122286](#), [PMID:34737324](#)

Comments: Group: Patented cell line.

Category: Spontaneously immortalized cell line

Organism: *Sus scrofa* (Pig)

Name: LLC-PK1

Synonyms: LLC-PK(1), LLC-PK-1, LLC PK-1, LLc-PK1, LLC PK1, LLCPK1, Lilly Laboratories Culture-Porcine Kidney 1

Cross References: BTO:BTO_0000760, CLO:CLO_0007331, MCCL:MCC:0000286, CLDB:cl3221, CLDB:cl5221, ABM:T9045, ATCC:CL-101, ATCC:CRL-1392, BCRC:60080, BCRJ:0147, CCRID:1101SWI-PUMC000111, CCRID:4201SWI-CCTCC00612, ChEMBL-Cells:ChEMBL3307655, ChEMBL-Targets:ChEMBL614577, CLS:607264, DSMZ:ACC-637, DSMZCellDive:ACC-637, ECACC:86121112, GEO:GSM4009059, GEO:GSM4009060, GEO:GSM4009061, IZSLER:BS CL 111, JCRB:JCRB0060, Lonza:844, MeSH:D018374, PRIDE:PXD007891, PubChem_Cell_line:CVCL_0391, TOKU-E:2208, Wikidata:Q28334936

ID: CVCL_0391

Record Creation Time: 20220427T220729+0000

Record Last Update: 20260905T181031+0000

Ratings and Alerts

No rating or validation information has been found for LLC-PK1.

Warning: Discontinued: ATCC; CRL-1392
Group: Patented cell line.

Data and Source Information

Source: [Cellosaurus](#)

Usage and Citation Metrics

We found 295 mentions in open access literature.

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

Leonardi L, et al. (2026) TLR7 induces autophagy in non-small cell lung cancer tumor cells and influences anti-tumors responses in patients. Translational lung cancer research, 15(4), 75.

Sri Theivakadadcham VS, et al. (2026) MRCK? Is a Suppressor of GEF-H1/RhoA/MRTF Signaling in Tubular Cells. Cells, 15(5).

Li L, et al. (2026) RNF115-Tollip coordination mediates selective autophagic degradation of N protein during PEDV infection. International journal of biological macromolecules, 346, 150448.

Licursi M, et al. (2026) Dependence of energy balance and hypothalamic neuropeptide gene expression on initial tumor load in mice. Frontiers in oncology, 16, 1783555.

Brown CR, et al. (2025) Palmitoylation regulates norepinephrine transporter uptake, surface localization, and total expression with pathogenic implications in postural orthostatic tachycardia syndrome. Journal of neurochemistry, 169(2), e16241.

Yang Z, et al. (2025) Rapid and accurate detection of infectious SARS-CoV-2 by viral receptor capture combined with loop-mediated isothermal amplification. Virologica Sinica, 40(4), 613.

Wu CL, et al. (2025) Depletion of tropomyosin 1.6 alleviates TGF- β 1-induced fibroblast activation by promoting the β -SMA-MMP9 matrix-degrading structure. iScience, 28(9), 113317.

Mannion J, et al. (2024) A RIPK1-specific PROTAC degrader achieves potent antitumor activity by enhancing immunogenic cell death. Immunity, 57(7), 1514.

Li B, et al. (2024) LncRNA XIST modulates miR-328-3p ectopic expression in lung injury induced by tobacco-specific lung carcinogen NNK both in vitro and in vivo. *British journal of pharmacology*, 181(15), 2509.

Wang X, et al. (2023) Prediction and Verification of Curcumin as a Potential Drug for Inhibition of PDCoV Replication in LLC-PK1 Cells. *International journal of molecular sciences*, 24(6).

Wang Y, et al. (2023) Identification of niclosamide as a novel antiviral agent against porcine epidemic diarrhea virus infection by targeting viral internalization. *Virologica Sinica*, 38(2), 296.

Syku?a A, et al. (2023) Spectroscopic Characterization and Biological Activity of Hesperetin Schiff Bases and Their Cu(II) Complexes. *International journal of molecular sciences*, 24(1).

Primadharsini PP, et al. (2023) Development and Characterization of Efficient Cell Culture Systems for Genotype 1 Hepatitis E Virus and Its Infectious cDNA Clone. *Viruses*, 15(4).

Huang HX, et al. (2023) Swine acute diarrhoea syndrome coronavirus (SADS-CoV) Nsp5 antagonizes type I interferon signaling by cleaving DCP1A. *Frontiers in immunology*, 14, 1196031.

Sinha F, et al. (2023) Empagliflozin increases kidney weight due to increased cell size in the proximal tubule S3 segment and the collecting duct. *Frontiers in pharmacology*, 14, 1118358.

Zhu M, et al. (2023) CMPK2 is a host restriction factor that inhibits infection of multiple coronaviruses in a cell-intrinsic manner. *PLoS biology*, 21(3), e3002039.

Zhang J, et al. (2023) Porcine Epidemic Diarrhea Virus nsp7 Inhibits MDA5 Dephosphorylation to Antagonize Type I Interferon Production. *Microbiology spectrum*, 11(2), e0501722.

Liu G, et al. (2023) Characterization, comparison, and optimization of lattice light sheets. *Science advances*, 9(13), eade6623.

Veletanlic V, et al. (2023) Multiple rotavirus species encode fusion-associated small transmembrane (FAST) proteins with cell type-specific activity. *bioRxiv : the preprint server for biology*.

He W, et al. (2023) Identification of a novel linear B-cell epitope in porcine deltacoronavirus nucleocapsid protein. *Applied microbiology and biotechnology*, 107(2-3), 651.