

Resource Summary Report

Generated by [dkNET](#) on Sep 2, 2026

PK-15

RRID:CVCL_2160

Type: Cell Line

Proper Citation

RRID:CVCL_2160

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_2160

Proper Citation: RRID:CVCL_2160

Description: Cell line PK-15 is a Spontaneously immortalized cell line with a species of origin *Sus scrofa* (Pig)

Sex: Male

Defining Citation: [PMID:2686830](#), [PMID:3009166](#), [PMID:3173126](#), [PMID:4132403](#), [PMID:4151202](#), [PMID:5962858](#), [PMID:6160900](#), [PMID:6988327](#), [PMID:15731278](#), [PMID:17889922](#), [PMID:19508353](#), [PMID:19937495](#), [PMID:19941903](#), [PMID:24398227](#), [PMID:26456528](#), [PMID:31216434](#), [PMID:32258794](#), [PMID:34737324](#)

Comments: Virology: Susceptible to infection by SARS coronavirus (SARS-CoV) (PubMed=15731278)., Virology: PK-15 from ATCC was found to be infected with porcine circovirus 1 (PCV1) (PubMed=2686830; PubMed=4151202)., Part of: Naval Biosciences Laboratory (NBL) collection (transferred to ATCC in 1982).

Category: Spontaneously immortalized cell line

Organism: *Sus scrofa* (Pig)

Name: PK-15

Synonyms: PK(15), PK (15), PK 15, PK15, Porcine Kidney-15

Cross References: BTO:BTO_0001865, CLO:CLO_0008447, CLO:CLO_0008448, CLO:CLO_0050908, CLDB:cl3906, CLDB:cl3907, CLDB:cl3908, ATCC:CCL-33, ATCC:CRL-6593, BCRC:60057, BCRJ:0355, CCLV:CCLV-RIE 0005, CCRID:1101SWI-PUMC000385, CCRID:1102SWI-NIFDC00089, CCRID:4201SWI-CCTCC00061, CCTCC:GDC0061, CLS:607426, DSMZ:ACC-640, DSMZCellDive:ACC-640, FCS-free:42-15-47-1-8-9, GEO:GSM422415, GEO:GSM422416, GEO:GSM422417, IZSLER:BS CL

72, JCRB:JCRB9040, KCB:KCB 2010002YJ, KCLB:10033, RCB:RCB0534,
Wikidata:Q54947433

ID: CVCL_2160

Hierarchy: cvcl_s287

Record Creation Time: 20220427T221433+0000

Record Last Update: 20260829T235636+0000

Ratings and Alerts

No rating or validation information has been found for PK-15.

Warning: Discontinued: ATCC; CRL-6593

Virology: Susceptible to infection by SARS coronavirus (SARS-CoV)

(PubMed=15731278)., Virology: PK-15 from ATCC was found to be infected with porcine circovirus 1 (PCV1) (PubMed=2686830; PubMed=4151202)., Part of: Naval Biosciences Laboratory (NBL) collection (transferred to ATCC in 1982).

Data and Source Information

Source: [CelloSaurus](#)

Usage and Citation Metrics

We found 482 mentions in open access literature.

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

Lv B, et al. (2026) ARF-like GTPase 8B orchestrates lipophagy and exocytosis to drive single-stranded RNA virus replication. Journal of translational medicine, 24(1).

Wan H, et al. (2025) Harnessing nanozyme-immunomodulation for antiviral defense via Fe-nordihydroguaiaretic acid nano-networks. Materials today. Bio, 35, 102567.

Zhang S, et al. (2025) SFP6 fluorescent probes for imaging SAM dynamics in living cells. Mikrochimica acta, 192(3), 180.

Wu X, et al. (2025) Development of a neutralization assay and bioluminescent imaging mouse model for Dehong virus (DEHV) using a pseudovirus system. Microbiology spectrum, 13(5), e0155724.

Ma K, et al. (2025) Prolyl endopeptidase is a multifunctional host factor required for FMDV infection. Cellular and molecular life sciences : CMLS, 82(1), 408.

Wu K, et al. (2025) COPS2 coordinates biphasic autophagy hijacking for non-lytic propagation of enveloped RNA viruses. Cell reports, 44(12), 116594.

Zhang M, et al. (2025) Multi-Architecture Nanovaccines Against Pseudorabies Virus and Particle Size-Governed Immune Activation Mechanisms. *Advanced healthcare materials*, e03382.

Liu S, et al. (2024) Evaluating the mosquito vector range for two orthobunyaviruses: Oya virus and Ebinur Lake virus. *Parasites & vectors*, 17(1), 204.

Sun Y, et al. (2024) Landscape of alternative splicing and polyadenylation during growth and development of muscles in pigs. *Communications biology*, 7(1), 1607.

Rashid M, et al. (2023) Inhibition of high-fat diet-induced inflammatory responses in adipose tissue by SF1-expressing neurons of the ventromedial hypothalamus. *Cell reports*, 42(6), 112627.

Yang X, et al. (2023) Transcriptional Regulation Associated with Subcutaneous Adipogenesis in Porcine ACSL1 Gene. *Biomolecules*, 13(7).

Xu M, et al. (2023) TLR2-mediated NF- κ B signaling pathway is involved in PPV1-induced apoptosis in PK-15 cells. *Veterinary research communications*, 47(2), 397.

Sarry M, et al. (2023) Host-Specific Interplay between Foot-and-Mouth Disease Virus 3D Polymerase and the Type-I Interferon Pathway. *Viruses*, 15(3).

Tang X, et al. (2023) LncRNA 8244-ssc-miR-320-CCR7 Regulates IFN- γ during SVA Infecting PK-15 Cells. *Microorganisms*, 11(3).

Liu Z, et al. (2023) Optimized protocol for double vaccine immunization against classical swine fever and porcine reproductive and respiratory syndrome. *BMC veterinary research*, 19(1), 14.

Xu W, et al. (2023) BAK-Mediated Pyroptosis Promotes Japanese Encephalitis Virus Proliferation in Porcine Kidney 15 Cells. *Viruses*, 15(4).

Zhang C, et al. (2023) Bis-Benzylisoquinoline Alkaloids Inhibit Porcine Epidemic Diarrhea Virus by Disrupting Virus Entry. *Pathogens (Basel, Switzerland)*, 12(6).

Chen WT, et al. (2023) Cross-reactivities and cross-neutralization of different envelope glycoproteins E2 antibodies against different genotypes of classical swine fever virus. *Frontiers in veterinary science*, 10, 1169766.

Pan L, et al. (2023) Establishment of an In Vitro Model of Pseudorabies Virus Latency and Reactivation and Identification of Key Viral Latency-Associated Genes. *Viruses*, 15(3).

Bo Z, et al. (2023) Gallocatechin Gallate Inhibits the Replication of Pseudorabies Virus via Suppressing the Entry and Release Stages in Its Replication Cycle. *Veterinary sciences*, 10(3).