Resource Summary Report

Generated by dkNET on Sep 1, 2026

IPEC-J2

RRID:CVCL_2246
Type: Cell Line

Proper Citation

DSMZ Cat# ACC-701, RRID:CVCL_2246

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_2246

Proper Citation: DSMZ Cat# ACC-701, RRID:CVCL_2246

Description: Cell line IPEC-J2 is a Spontaneously immortalized cell line with a species of origin Sus scrofa (Pig)

Sex: Sex unspecified

Defining Citation: PMID:16215741, PMID:21626283, PMID:22074860, PMID:22193509, PMID:24260272, PMID:25407967, PMID:26147118, PMID:26651362, PMID:26975772, PMID:29787056, PMID:32708885

Comments: Virology: Susceptible to infection by porcine circovirus 2 (PCV2) (PubMed=25407967)., Characteristics: Undergoes a process of spontaneous differentiation that leads to the formation of a polarized monolayer with low or high transepithelial electrical resistance (TEER), depending on the type of serum added to the culture medium, within 1-2 weeks (PubMed=29787056).

Category: Spontaneously immortalized cell line

Organism: Sus scrofa (Pig)

Name: IPEC-J2

Synonyms: IPECJ2, Intestinal Porcine Epithelial Cell line-J2

Cross References: BTO:BTO_0006402, DSMZ:ACC-701, DSMZCellDive:ACC-701, GEO:GSM1646398, GEO:GSM1646399, GEO:GSM1646400, IZSLER:BS CL 205, Ubigene:YC-C072, Wikidata:Q54897969

ID: CVCL_2246

Vendor: DSMZ

Catalog Number: ACC-701

Record Creation Time: 20220427T220638+0000

Record Last Update: 20260829T234324+0000

Ratings and Alerts

No rating or validation information has been found for IPEC-J2.

No alerts have been found for IPEC-J2.

Data and Source Information

Source: Cellosaurus

Usage and Citation Metrics

We found 555 mentions in open access literature.

Listed below are recent publications. The full list is available at dkNET .

Zeng R, et al. (2026) An intrinsic loop-mediated structural stability modulating inhibitor potency in the SADS-CoV and SARS-CoV-2 main proteases. PLoS pathogens, 22(2), e1013981.

Lan C, et al. (2026) A next-generation probiotic strain for gut health: Bacteroides cellulosilyticus LYH2 variant with anti-inflammatory and metabolic advantages. EBioMedicine, 126, 106232.

Binder ARD, et al. (2024) Growth behavior and mRNA expression profiling during growth of IPEC-J2 cells. BMC research notes, 17(1), 154.

Xie H, et al. (2024) Comparative Evaluation of Spores and Vegetative Forms of Bacillus subtilis and Bacillus licheniformis on Probiotic Functionality In Vitro and In Vivo. Probiotics and antimicrobial proteins.

de Vos J, et al. (2023) Detailed molecular and epigenetic characterization of the pig IPEC-J2 and chicken SL-29 cell lines. iScience, 26(3), 106252.

Binder ARD, et al. (2023) Uptake and effects of polystyrene nanoplastics in comparison to non-plastic silica nanoparticles on small intestine cells (IPEC-J2). Ecotoxicology and environmental safety, 262, 115147.

Peng F, et al. (2023) Early flora colonization affects intestinal immunoglobulin G uptake in piglets, which may be mediated by NF-??B-FcRn pathway. Frontiers in microbiology, 14, 1136513.

Wang F, et al. (2023) Adenovirus vector-mediated single chain variable fragments target the nucleocapsid protein of porcine epidemic diarrhea virus and protect against viral

infection in piglets. Frontiers in immunology, 14, 1058327.

Pereira CER, et al. (2023) Evaluation of the role of clathrin and bacterial viability in the endocytosis of Lawsonia intracellularis. Frontiers in veterinary science, 10, 1005676.

Hu J, et al. (2023) Core-predominant gut fungus Kazachstania slooffiae promotes intestinal epithelial glycolysis via lysine desuccinylation in pigs. Microbiome, 11(1), 31.

Niu Z, et al. (2023) Porcine Epidemic Diarrhea Virus Replication in Human Intestinal Cells Reveals Potential Susceptibility to Cross-Species Infection. Viruses, 15(4).

Xu Q, et al. (2023) Stevioside Improves Antioxidant Capacity and Intestinal Barrier Function while Attenuating Inflammation and Apoptosis by Regulating the NF-??B/MAPK Pathways in Diquat-Induced Oxidative Stress of IPEC-J2 Cells. Antioxidants (Basel, Switzerland), 12(5).

Zhang H, et al. (2023) Impact of porcine circovirus type 2 on porcine epidemic diarrhea virus replication in the IPI-FX cell line depends on the order of infection. Frontiers in microbiology, 14, 1162104.

Li J, et al. (2023) Limosilactobacillus mucosae-derived extracellular vesicles modulates macrophage phenotype and orchestrates gut homeostasis in a diarrheal piglet model. NPJ biofilms and microbiomes, 9(1), 33.

He H, et al. (2023) Butyrate limits the replication of porcine epidemic diarrhea virus in intestine epithelial cells by enhancing GPR43-mediated IFN-III production. Frontiers in microbiology, 14, 1091807.

Qin W, et al. (2023) Chromatin Accessibility and Transcriptional Landscape during Inhibition of Salmonella enterica by Lactobacillus reuteri in IPEC-J2 Cells. Cells, 12(6).

Chen K, et al. (2023) Lactobacillus johnsonii L531 Ameliorates Salmonella enterica Serovar Typhimurium Diarrhea by Modulating Iron Homeostasis and Oxidative Stress via the IRP2 Pathway. Nutrients, 15(5).

Wang J, et al. (2023) In silico and in vitro evaluation of antiviral activity of wogonin against main protease of porcine epidemic diarrhea virus. Frontiers in cellular and infection microbiology, 13, 1123650.

Duan Q, et al. (2023) Both LTA and LTB Subunits Are Equally Important to Heat-Labile Enterotoxin (LT)-Enhanced Bacterial Adherence. International journal of molecular sciences, 24(2).

Li J, et al. (2023) Decreased S100A9 expression alleviates Clostridium perfringens beta2 toxin-induced inflammatory injury in IPEC-J2 cells. PeerJ, 11, e14722.