

Resource Summary Report

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MDCK-II

RRID:CVCL_0424

Type: Cell Line

Proper Citation

RRID:CVCL_0424

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_0424

Proper Citation: RRID:CVCL_0424

Description: Cell line MDCK-II is a Spontaneously immortalized cell line with a species of origin Canis lupus familiaris (Dog)

Sex: Female

Defining Citation: [PMID:1468552](#), [PMID:19941903](#), [PMID:21766308](#), [PMID:21982418](#), [PMID:24975811](#), [PMID:34737324](#)

Comments: Group: Vaccine production cell line.

Category: Spontaneously immortalized cell line

Organism: Canis lupus familiaris (Dog)

Name: MDCK-II

Synonyms: MDCK II, MDCKII, MDCK2, MDCK-2, MDCK Type II, MDCKII-WT

Cross References: BTO:BTO_0004607, MCCL:MCC:0000321, AddexBio:P0014001/82, CCLV:CCLV-RIE 1061, ChEMBL-Cells:ChEMBL3308862, ChEMBL-Targets:ChEMBL4296466, CLS:305233, ECACC:00062107, Lonza:811, PRIDE:PXD001130, PubChem_Cell_line:CVCL_0424, RCB:RCB5148, Wikidata:Q54904781

ID: CVCL_0424

Hierarchy: cvcl_0422

Record Creation Time: 20220427T220757+0000

Record Last Update: 20260802T002250+0000

Ratings and Alerts

No rating or validation information has been found for MDCK-II.

No alerts have been found for MDCK-II.

Data and Source Information

Source: [Cellosaurus](#)

Usage and Citation Metrics

We found 405 mentions in open access literature.

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

Tambrin HM, et al. (2025) ARHGAP12 suppresses F-actin assembly to control epithelial tight junction mechanics and paracellular leak pathway permeability. *Cell reports*, 44(4), 115511.

Takizawa N, et al. (2025) Concentration-dependent formation of intersegment interactions in the viral inclusions of influenza A virus infected cells. *iScience*, 28(10), 113606.

Kuno S, et al. (2025) Multivalent afadin interaction promotes IDR-mediated condensate formation and junctional separation of epithelial cells. *Cell reports*, 44(3), 115335.

Robinson BP, et al. (2024) Septin-coated microtubules promote maturation of multivesicular bodies by inhibiting their motility. *The Journal of cell biology*, 223(8).

Martínez-López A, et al. (2024) POTE promotes breast cancer cell malignancy by inducing invadopodia formation through the activation of SUMOylated Rac1. *Molecular oncology*, 18(3), 620.

Mukenhirn M, et al. (2024) Tight junctions control lumen morphology via hydrostatic pressure and junctional tension. *Developmental cell*, 59(21), 2866.

Koch B, et al. (2024) Influenza A virus replicates productively in primary human kidney cells and induces factors and mechanisms related to regulated cell death and renal pathology observed in virus-infected patients. *Frontiers in cellular and infection microbiology*, 14, 1363407.

Ahrens AK, et al. (2023) Investigating Environmental Matrices for Use in Avian Influenza Virus Surveillance-Surface Water, Sediments, and Avian Fecal Samples. *Microbiology spectrum*, 11(2), e0266422.

Günl F, et al. (2023) The ubiquitination landscape of the influenza A virus polymerase. *Nature communications*, 14(1), 787.

Guo Z, et al. (2023) Neuraminidase Activity Modulates Cellular Coinfection during Influenza A Virus Multicycle Growth. *mBio*, 14(3), e0359122.

Stockmann P, et al. (2023) The More the Better-Investigation of Polymethoxylated N-Carboranyl Quinazolines as Novel Hybrid Breast Cancer Resistance Protein Inhibitors. *Pharmaceutics*, 15(1).

Ganter B, et al. (2023) T-705-Derived Prodrugs Show High Antiviral Efficacies against a Broad Range of Influenza A Viruses with Synergistic Effects When Combined with Oseltamivir. *Pharmaceutics*, 15(6).

Scheibner D, et al. (2023) Phenotypic effects of mutations observed in the neuraminidase of human origin H5N1 influenza A viruses. *PLoS pathogens*, 19(2), e1011135.

Prahl LS, et al. (2023) Independent control over cell patterning and adhesion on hydrogel substrates for tissue interface mechanobiology. *iScience*, 26(5), 106657.

Heinemann AS, et al. (2023) Silent neonatal influenza A virus infection primes systemic antimicrobial immunity. *Frontiers in immunology*, 14, 1072142.

Higashi T, et al. (2023) EpCAM proteolysis and release of complexed claudin-7 repair and maintain the tight junction barrier. *The Journal of cell biology*, 222(1).

Rouaud F, et al. (2023) Cingulin and paracingulin tether myosins-2 to junctions to mechanoregulate the plasma membrane. *The Journal of cell biology*, 222(7).

Danielsson BE, et al. (2023) Nuclear lamina strain states revealed by intermolecular force biosensor. *Nature communications*, 14(1), 3867.

Mitchell SJ, et al. (2023) Voltage-dependent volume regulation controls epithelial cell extrusion and morphology. *bioRxiv : the preprint server for biology*.

Malik T, et al. (2023) Silencing Transcription from an Influenza Reverse Genetics Plasmid in *E. coli* Enhances Gene Stability. *ACS synthetic biology*, 12(2), 432.