

Resource Summary Report

Generated by [dkNET](#) on Aug 23, 2026

MDCK-SIAT1

RRID:CVCL_Z936

Type: Cell Line

Proper Citation

RRID:CVCL_Z936

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_Z936

Proper Citation: RRID:CVCL_Z936

Description: Cell line MDCK-SIAT1 is a Spontaneously immortalized cell line with a species of origin Canis lupus familiaris (Dog)

Sex: Female

Defining Citation: [PMID:12857911](#), [PMID:34737324](#)

Category: Spontaneously immortalized cell line

Organism: Canis lupus familiaris (Dog)

Name: MDCK-SIAT1

Cross References: ABM:T6999, CLS:602281, ECACC:05071502, Wikidata:Q54904801

ID: CVCL_Z936

Hierarchy: cvcl_0422

Record Creation Time: 20220427T220758+0000

Record Last Update: 20260815T234604+0000

Ratings and Alerts

No rating or validation information has been found for MDCK-SIAT1.

No alerts have been found for MDCK-SIAT1.

Data and Source Information

Usage and Citation Metrics

We found 157 mentions in open access literature.

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

Andersen H, et al. (2025) Immunopathogenesis of lethal H5N1 avian influenza virus clade 2.3.4.4b infection in macaques. *Immunity*, 58(9), 2157.

Ekanger CT, et al. (2025) Comparison of air-liquid interface transwell and airway organoid models for human respiratory virus infection studies. *Frontiers in immunology*, 16, 1532144.

Wang L, et al. (2025) Mucosal boosting increases protective efficacy of an influenza vaccine in mice. *iScience*, 28(6), 112721.

Rijal P, et al. (2025) Structure-guided loop grafting improves expression and stability of influenza neuraminidase for vaccine development. *eLife*, 14.

Alkie TN, et al. (2025) Dairy cow- and avian-origin clade 2.3.4.4b H5N1 induce severe mastitis in lactating goats and transmission to suckling goats. *Cell reports*, 44(10), 116346.

Thompson AJ, et al. (2024) Evolution of human H3N2 influenza virus receptor specificity has substantially expanded the receptor-binding domain site. *Cell host & microbe*, 32(2), 261.

Lederhofer J, et al. (2024) Protective human monoclonal antibodies target conserved sites of vulnerability on the underside of influenza virus neuraminidase. *Immunity*, 57(3), 574.

Naleway AL, et al. (2023) Immunogenicity of High-Dose Egg-Based, Recombinant, and Cell Culture-Based Influenza Vaccines Compared With Standard-Dose Egg-Based Influenza Vaccine Among Health Care Personnel Aged 18-65 Years in 2019-2020. *Open forum infectious diseases*, 10(6), ofad223.

Chang P, et al. (2023) Antigenic Characterization of Human Monoclonal Antibodies for Therapeutic Use against H7N9 Avian Influenza Virus. *Journal of virology*, 97(1), e0143122.

Kandasamy M, et al. (2023) Recombinant single-cycle influenza virus with exchangeable pseudotypes allows repeated immunization to augment anti-tumour immunity with immune checkpoint inhibitors. *eLife*, 12.

Lei R, et al. (2023) Mutational fitness landscape of human influenza H3N2 neuraminidase. *Cell reports*, 42(1), 111951.

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.

Phillips AM, et al. (2023) Hierarchical sequence-affinity landscapes shape the evolution of breadth in an anti-influenza receptor binding site antibody. *eLife*, 12.

Vicary AC, et al. (2023) Maximal interferon induction by influenza lacking NS1 is infrequent owing to requirements for replication and export. *PLoS pathogens*, 19(4), e1010943.

Dehghani F, et al. (2023) Antiviral and antioxidant properties of green synthesized gold nanoparticles using *Glaucium flavum* leaf extract. *Applied nanoscience*, 13(6), 4395.

Huang KA, et al. (2023) Structural basis for a conserved neutralization epitope on the receptor-binding domain of SARS-CoV-2. *Nature communications*, 14(1), 311.

Oh DY, et al. (2023) Preparing for the Next Influenza Season: Monitoring the Emergence and Spread of Antiviral Resistance. *Infection and drug resistance*, 16, 949.

Paudyal B, et al. (2022) Fc-Mediated Functions of Porcine IgG Subclasses. *Frontiers in immunology*, 13, 903755.

Petric PP, et al. (2022) Increased Polymerase Activity of Zoonotic H7N9 Allows Partial Escape from MxA. *Viruses*, 14(11).

Aw DZH, et al. (2022) Serial Passaging of Seasonal H3N2 Influenza A/Singapore/G2-31.1/2014 Virus in MDCK-SIAT1 Cells and Primary Chick Embryo Cells Generates HA D457G Mutation and Other Variants in HA, NA, PB1, PB1-F2, and NS1. *International journal of molecular sciences*, 23(20).