Resource Summary Report

Generated by RRID on Sep 9, 2026

NR8383

RRID:CVCL_4396
Type: Cell Line

Proper Citation

RRID:CVCL_4396

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_4396

Proper Citation: RRID:CVCL_4396

Description: Cell line NR8383 is a Spontaneously immortalized cell line with a species of origin Rattus norvegicus (Rat)

Sex: Male

Defining Citation: PMID:2914814, PMID:3497918, PMID:9738661, PMID:28242876

Comments: Anecdotal: Have been flown in space on the ISS in 2014-2015 to study growth and adaptation to microgravity (PubMed=28242876)., Characteristics: Provides a homogenous source of highly responsive alveolar macrophages which can be used in vitro to study macrophage related activities (ATCC=CRL-2192)., Group: Space-flown cell line (cellonaut).

Category: Spontaneously immortalized cell line

Organism: Rattus norvegicus (Rat)

Name: NR8383

Synonyms: NR-8383, NR 8383, NR8383.1, NR8383 clone AgCl1X3A, AgC11x3A, Normal Rat, August 3, 1983

Cross References: BTO:BTO_0002907, CLO:CLO_0008193, ATCC:CRL-2192, BCRC:60423, CCRID:1101RAT-PUMC000663, CCRID:3101RATGNR9, CLS:305200, KCB:KCB 2010189YJ, Lonza:1390, Wikidata:Q54931021

ID: CVCL_4396

Record Creation Time: 20220427T221347+0000

Record Last Update: 20260905T181932+0000

Ratings and Alerts

No rating or validation information has been found for NR8383.

No alerts have been found for NR8383.

Data and Source Information

Source: Cellosaurus

Usage and Citation Metrics

We found 119 mentions in open access literature.

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

Deng M, et al. (2026) Nanoliposomal Eucommia ulmoides extract limits PANoptosis in sepsis-induced acute lung injury through a TGF-?1-JNK pathway. British journal of pharmacology, 183(15), 4381.

Zhang Y, et al. (2025) Hypoxic Mesenchymal Stem Cell Exosome-Derived SLC25A3 Ameliorates Bronchopulmonary Dysplasia by Modulating Macrophage Polarization and Oxidative Stress. Cell biochemistry and function, 43(12), e70152.

Breisch M, et al. (2023) Cell-Biological Response and Sub-Toxic Inflammatory Effects of Titanium Dioxide Particles with Defined Polymorphic Phase, Size, and Shape. Nanomaterials (Basel, Switzerland), 13(10).

He X, et al. (2023) Inhibition of PD-1 Alters the SHP1/2-PI3K/Akt Axis to Decrease M1 Polarization of Alveolar Macrophages in Lung Ischemia-Reperfusion Injury. Inflammation, 46(2), 639.

Wu S, et al. (2023) Azithromycin attenuates wheezing after pulmonary inflammation through inhibiting histone H3K27me3 hypermethylation mediated by EZH2. Clinical epigenetics, 15(1), 12.

Creutzenberg O, et al. (2022) PLATOX: Integrated In Vitro/In Vivo Approach for Screening of Adverse Lung Effects of Graphene-Related 2D Nanomaterials. Nanomaterials (Basel, Switzerland), 12(8).

Leroux MM, et al. (2022) Aerosol-Cell Exposure System Applied to Semi-Adherent Cells for Aerosolization of Lung Surfactant and Nanoparticles Followed by High Quality RNA Extraction. Nanomaterials (Basel, Switzerland), 12(8).

Sun G, et al. (2022) 3,5,3'-Triiodothyronine-Loaded Liposomes Inhibit Hepatocarcinogenesis Via Inflammation-Associated Macrophages. Frontiers in oncology, 12, 877982.

Wiemann M, et al. (2022) Surface Treatment With Hydrophobic Coating Reagents (Organosilanes) Strongly Reduces the Bioactivity of Synthetic Amorphous Silica in vitro.

Frontiers in public health, 10, 902799.

Shih SP, et al. (2022) The Antileukemic and Anti-Prostatic Effect of Aeroplysinin-1 Is Mediated through ROS-Induced Apoptosis via NOX Activation and Inhibition of HIF-1a Activity. Life (Basel, Switzerland), 12(5).

Wang Y, et al. (2022) Antibacterial activity and cytotoxicity of a novel bacteriocin isolated from Pseudomonas sp. strain 166. Microbial biotechnology, 15(9), 2337.

Lovri? J, et al. (2022) Correlative High-Resolution Imaging of Iron Uptake in Lung Macrophages. Analytical chemistry, 94(37), 12798.

Huang D, et al. (2022) Analgesic and Anti-Arthritic Activities of Polysaccharides in Chaenomeles speciosa. Frontiers in pharmacology, 13, 744915.

Xie SS, et al. (2022) Endothelial cell ferroptosis mediates monocrotaline-induced pulmonary hypertension in rats by modulating NLRP3 inflammasome activation. Scientific reports, 12(1), 3056.

Shi H, et al. (2022) MG132 protects against lung injury following brain death in rats. Experimental and therapeutic medicine, 24(5), 687.

Yarana C, et al. (2022) Extracellular Vesicles Released after Doxorubicin Treatment in Rats Protect Cardiomyocytes from Oxidative Damage and Induce Pro-Inflammatory Gene Expression in Macrophages. International journal of molecular sciences, 23(21).

Liu W, et al. (2022) Reineckia carnea Alleviates the Production of Inflammatory Cytokines and MUC5AC in Rats with Chronic Obstructive Pulmonary Disease. Evidence-based complementary and alternative medicine : eCAM, 2022, 2135487.

Luo Y, et al. (2022) C/EBP? Promotes LPS-Induced IL-1? Transcription and Secretion in Alveolar Macrophages via NOD2 Signaling. Journal of inflammation research, 15, 5247.

Vennemann A, et al. (2022) Subcellular detection of PEBCA particles in macrophages: combining darkfield microscopy, confocal Raman microscopy, and ToF-SIMS analysis. Drug delivery and translational research, 12(9), 2075.

Li P, et al. (2022) lncRNA LOC100911717-targeting GAP43-mediated sympathetic remodeling after myocardial infarction in rats. Frontiers in cardiovascular medicine, 9, 1019435.