Resource Summary Report

Generated by FDI Lab - SciCrunch.org on May 20, 2025

AC16 [Human hybrid cardiomyocyte]

RRID:CVCL_4U18 Type: Cell Line

Proper Citation

(Millipore Cat# SCC109, RRID:CVCL_4U18)

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_4U18

Proper Citation: (Millipore Cat# SCC109, RRID:CVCL_4U18)

Defining Citation: PMID:15913645

Comments: Characteristics: Can differentiate when cultured in mitogen-free medium. The cells may be used to study developmental regulation of cardiomyocytes (Millipore=SCC109)., Characteristics: Hybrid of adult ventricular cardiomiocytes with a SV40 transformed, uridine auxotroph human fibroblast cell line devoid of mitochondrial DNA (PubMed=15913645)., Group: Patented cell line.

Category: Hybrid cell line

Name: AC16 [Human hybrid cardiomyocyte]

Cross References: EFO:EFO_0022630, ATCC:CRL-3568, CLS:305215, Millipore:SCC109, Wikidata:Q54607923

ID: CVCL_4U18

Vendor: Millipore

Catalog Number: SCC109

Record Creation Time: 20250131T193739+0000

Record Last Update: 20250131T193907+0000

Ratings and Alerts

No rating or validation information has been found for AC16 [Human hybrid cardiomyocyte].

Warning: Discontinued: ATCC; PTA-1500

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Data and Source Information

Source: Cellosaurus

Usage and Citation Metrics

We found 308 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Nagy RN, et al. (2024) Cardioprotective microRNAs (protectomiRs) in a pig model of acute myocardial infarction and cardioprotection by ischaemic conditioning: MiR-450a. British journal of pharmacology.

Mohr ME, et al. (2024) Cardiomyocyte-fibroblast interaction regulates ferroptosis and fibrosis after myocardial injury. iScience, 27(3), 109219.

Stevens SA, et al. (2024) REDD1 Deletion Suppresses NF-?B Signaling in Cardiomyocytes and Prevents Deficits in Cardiac Function in Diabetic Mice. International journal of molecular sciences, 25(12).

Dowling JW, et al. (2024) Protocol for detection of in vitro R-loop formation using dot blots. STAR protocols, 5(1), 102857.

Tang Y, et al. (2024) Cardiolipin oxidized by ROS from complex II acts as a target of gasdermin D to drive mitochondrial pore and heart dysfunction in endotoxemia. Cell reports, 43(5), 114237.

Wu A, et al. (2024) The activation of LBH-CRYAB signaling promotes cardiac protection against I/R injury by inhibiting apoptosis and ferroptosis. iScience, 27(5), 109510.

Li B, et al. (2024) The mechanisms and therapeutic potential of clopidogrel in mitigating diabetic cardiomyopathy in db/db mice. iScience, 27(3), 109134.

Muñoz JP, et al. (2023) FTY720-P, a Biased S1PR Ligand, Increases Mitochondrial Function through STAT3 Activation in Cardiac Cells. International journal of molecular sciences, 24(8).

Koncz A, et al. (2023) Endoplasmin Is a Hypoxia-Inducible Endoplasmic Reticulum-Derived Cargo of Extracellular Vesicles Released by Cardiac Cell Lines. Membranes, 13(4).

Zhang M, et al. (2023) Reduced acetylation of TFAM promotes bioenergetic dysfunction in the failing heart. iScience, 26(6), 106942.

Zhan J, et al. (2023) Positive feedback loop of miR-320 and CD36 regulates the hyperglycemic memory-induced diabetic diastolic cardiac dysfunction. Molecular therapy. Nucleic acids, 31, 122.

Stevens SA, et al. (2023) PERK/ATF4-dependent expression of the stress response protein REDD1 promotes proinflammatory cytokine expression in the heart of obese mice. American journal of physiology. Endocrinology and metabolism, 324(1), E62.

Currie J, et al. (2023) Simultaneous proteome localization and turnover analysis reveals spatiotemporal dynamics of unfolded protein responses. bioRxiv : the preprint server for biology.

Dai R, et al. (2023) LncRNA AC005332.7 Inhibited Ferroptosis to Alleviate Acute Myocardial Infarction Through Regulating miR-331-3p/CCND2 Axis. Korean circulation journal, 53(3), 151.

Chen R, et al. (2023) Danlou tablet inhibits high-glucose-induced cardiomyocyte apoptosis via the miR-34a-SIRT1 axis. Heliyon, 9(3), e14479.

Gao RF, et al. (2023) m6A demethylase ALKBH5 attenuates doxorubicin-induced cardiotoxicity via posttranscriptional stabilization of Rasal3. iScience, 26(3), 106215.

Cheng H, et al. (2023) TNC Accelerates Hypoxia-Induced Cardiac Injury in a METTL3-Dependent Manner. Genes, 14(3).

Zhao Y, et al. (2023) A Kaposi's sarcoma-associated herpes virus-encoded microRNA contributes to dilated cardiomyopathy. Signal transduction and targeted therapy, 8(1), 226.

Liu J, et al. (2023) HOTAIR regulates SIRT3-mediated cardiomyocyte survival after myocardial ischemia/reperfusion by interacting with FUS. BMC cardiovascular disorders, 23(1), 171.

Xie R, et al. (2023) LncRNA ZNF593-AS alleviates diabetic cardiomyopathy via suppressing IRF3 signaling pathway. Molecular therapy. Nucleic acids, 32, 689.