Resource Summary Report

Generated by FDI Lab - SciCrunch.org on Apr 28, 2024

NRK-49F

RRID:CVCL_2144
Type: Cell Line

Proper Citation

(JCRB Cat# IFO50481, RRID:CVCL_2144)

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_2144

Proper Citation: (JCRB Cat# IFO50481, RRID:CVCL_2144)

Description: Cell line NRK-49F is a Spontaneously immortalized cell line with a species of origin Rattus norvegicus

Defining Citation: PMID:304450, PMID:6254071

Comments: Breed/subspecies: Osborne-Mendel., Derived from sampling site: Kidney., Doubling time: ~30-40 hours (DSMZ).

Category: Spontaneously immortalized cell line

Organism: Rattus norvegicus

Name: NRK-49F

Synonyms: NRK 49F, NRK49F, NRK clone 49F, Normal Rat Kidney-49F

Cross References: BTO:BTO:0002409, CLO:CLO_0008196, CLO:CLO_0008197, CLO:CLO_0051426, CLDB:cl3726, CLDB:cl3727, CLDB:cl3728, CLDB:cl3729, CLDB:cl3730, CLDB:cl3731, ATCC:CRL-1570, BCRC:60084, CCRID:1101RAT-PUMC000413, ChEMBL-Cells:CHEMBL3308395, ChEMBL-Targets:CHEMBL614203, CLS:500427, DSMZ:ACC-172, DSMZCellDive:ACC-172, ECACC:86101301, IZSLER:BS CL 71, JCRB:IFO50481, JCRB:JCRB9067, Lonza:1414, PubChem_Cell_line:CVCL_2144, RCB:RCB0112, Wikidata:Q54931028

ID: CVCL_2144

Vendor: JCRB

Catalog Number: IFO50481

Hierarchy: CVCL_3758

Ratings and Alerts

No rating or validation information has been found for NRK-49F.

No alerts have been found for NRK-49F.

Data and Source Information

Source: Cellosaurus

Usage and Citation Metrics

We found 174 mentions in open access literature.

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

Chen DQ, et al. (2023) Poricoic acid A suppresses renal fibroblast activation and interstitial fibrosis in UUO rats via upregulating Sirt3 and promoting ?-catenin K49 deacetylation. Acta pharmacologica Sinica, 44(5), 1038.

Schulz MC, et al. (2023) Acidosis Activates the Nrf2 Pathway in Renal Proximal Tubule-Derived Cells through a Crosstalk with Renal Fibroblasts. Antioxidants (Basel, Switzerland), 12(2).

Suzuki S, et al. (2023) CBGA ameliorates inflammation and fibrosis in nephropathy. Scientific reports, 13(1), 6341.

Li S, et al. (2023) Tubular cell senescence promotes maladaptive kidney repair and chronic kidney disease after cisplatin nephrotoxicity. JCI insight, 8(8).

Park JS, et al. (2023) 3-Carboxy-4-methyl-5-propyl-2-furanpropanoic acid (CMPF) induces cell death through ferroptosis and acts as a trigger of apoptosis in kidney cells. Cell death & disease, 14(2), 78.

Zhang Y, et al. (2023) HDAC9-mediated epithelial cell cycle arrest in G2/M contributes to kidney fibrosis in male mice. Nature communications, 14(1), 3007.

Lin P, et al. (2023) Salvianolic acid B attenuates tubulointerstitial fibrosis by inhibiting EZH2 to regulate the PTEN/Akt pathway. Pharmaceutical biology, 61(1), 23.

Son M, et al. (2023) PPAR Pan Agonist MHY2013 Alleviates Renal Fibrosis in a Mouse Model by Reducing Fibroblast Activation and Epithelial Inflammation. International journal of molecular sciences, 24(5).

Cestero JJ, et al. (2023) Affinity of cefotiam for the alternative penicillin binding protein PBP3SAL used by Salmonella inside host eukaryotic cells. The Journal of antimicrobial chemotherapy, 78(2), 512.

Yang Y, et al. (2023) DNA-dependent protein kinase catalytic subunit (DNA-PKcs) drives chronic kidney disease progression in male mice. Nature communications, 14(1), 1334.

Wen Y, et al. (2023) Gastrodin attenuates renal injury and collagen deposition via suppression of the TGF-?1/Smad2/3 signaling pathway based on network pharmacology analysis. Frontiers in pharmacology, 14, 1082281.

Wang Y, et al. (2022) A novel role of BK potassium channel activity in preventing the development of kidney fibrosis. Kidney international, 101(5), 945.

Xu S, et al. (2022) Leukemia inhibitory factor is a therapeutic target for renal interstitial fibrosis. EBioMedicine, 86, 104312.

Minatoguchi S, et al. (2022) A novel renal perivascular mesenchymal cell subset gives rise to fibroblasts distinct from classic myofibroblasts. Scientific reports, 12(1), 5389.

Wang D, et al. (2022) Senescent renal tubular epithelial cells activate fibroblasts by secreting Shh to promote the progression of diabetic kidney disease. Frontiers in medicine, 9, 1018298.

Dong L, et al. (2022) Histone lysine-specific demethylase 1 induced renal fibrosis via decreasing sirtuin 3 expression and activating TGF-?1/Smad3 pathway in diabetic nephropathy. Diabetology & metabolic syndrome, 14(1), 2.

Schulz MC, et al. (2022) Epithelial-Fibroblast Crosstalk Protects against Acidosis-Induced Inflammatory and Fibrotic Alterations. Biomedicines, 10(3).

Sun W, et al. (2022) ?-Elemene Attenuates Renal Fibrosis in the Unilateral Ureteral Obstruction Model by Inhibition of STAT3 and Smad3 Signaling via Suppressing MyD88 Expression. International journal of molecular sciences, 23(10).

Ahmad A, et al. (2022) Development and Evaluation of a TaqMan Real-Time PCR Assay for the Rapid Detection of Cross-Contamination of RD (Human) and L20B (Mouse) Cell Lines Used in Poliovirus Surveillance. Journal of virological methods, 300, 114354.

Li Y, et al. (2022) Shen-Shuai-Ling Formulation Attenuates Renal Interstitial Fibrosis in Chronic Kidney Disease by Regulating SHH-Gli1 Signaling Pathway. Evidence-based complementary and alternative medicine : eCAM, 2022, 3754985.