

Resource Summary Report

Generated by [dkNET](#) on Aug 24, 2026

AR42J

RRID:CVCL_0143

Type: Cell Line

Proper Citation

RRID:CVCL_0143

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_0143

Proper Citation: RRID:CVCL_0143

Description: Cell line AR42J is a Cancer cell line with a species of origin Rattus norvegicus (Rat)

Sex: Sex unspecified

Disease: Rat digestive system neoplasms

Defining Citation: [PMID:1371645](#), [PMID:7517639](#), [PMID:11453651](#), [PMID:17392489](#)

Category: Cancer cell line

Organism: Rattus norvegicus (Rat)

Name: AR42J

Synonyms: AR4-2J, AR-42J

Cross References: BTO:BTO_0001928, CLO:CLO_0001740, EFO:EFO_0022814, MCCL:MCC:0000036, CLDB:cl280, CLDB:cl281, AddexBio:C0018004/24, ATCC:CRL-1492, BCRC:60160, CCTCC:GDC0147, ChEMBL-Cells:ChEMBL3307902, ChEMBL-Targets:ChEMBL614271, CLS:500478, ECACC:93100618, PubChem_Cell_line:CVCL_0143, TOKU-E:555, Wikidata:Q54750403

ID: CVCL_0143

Record Creation Time: 20220427T215222+0000

Record Last Update: 20260816T001923+0000

Ratings and Alerts

No rating or validation information has been found for AR42J.

No alerts have been found for AR42J.

Data and Source Information

Source: [Cellosaurus](#)

Usage and Citation Metrics

We found 154 mentions in open access literature.

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

Ramos-Álvarez I, et al. (2026) Role of serine/threonine phosphatases 1 and 2A in pancreatic acinar fluid and electrolyte secretion. American journal of physiology. Gastrointestinal and liver physiology.

Wei G, et al. (2026) Tricellulin regulates the tight junctions and cytoskeleton of pancreatic acinar cells through the NF- κ B pathway in hypertriglyceridemic acute pancreatitis. Biomedical reports, 25(1), 87.

Gonzalez P, et al. (2023) A Theranostic Small-Molecule Prodrug Conjugate for Neuroendocrine Prostate Cancer. Pharmaceutics, 15(2).

Liu LW, et al. (2023) Gut microbiota-derived nicotinamide mononucleotide alleviates acute pancreatitis by activating pancreatic SIRT3 signalling. British journal of pharmacology, 180(5), 647.

Wang X, et al. (2023) Salidroside ameliorates severe acute pancreatitis-induced cell injury and pyroptosis by inactivating Akt/NF- κ B and caspase-3/GSDME pathways. Heliyon, 9(2), e13225.

Li M, et al. (2023) Preclinical Evaluation of a Lead Specific Chelator (PSC) Conjugated to Radiopeptides for ²⁰³Pb and ²¹²Pb-Based Theranostics. Pharmaceutics, 15(2).

Hou FB, et al. (2023) Functional Imaging and Inhibitor Screening of Human Pancreatic Lipase by a Resorufin-Based Fluorescent Probe. Biosensors, 13(2).

Shin DY, et al. (2023) Euonymus alatus (Thunb.) Siebold leaf extract enhanced immunostimulatory effects in a cyclophosphamide-induced immunosuppressed rat model. Food & nutrition research, 67.

Liu W, et al. (2023) Targeting extracellular CIRP with an X-aptamer shows therapeutic potential in acute pancreatitis. iScience, 26(7), 107043.

Yang X, et al. (2023) Total flavonoids of Chrysanthemum indicum L inhibit acute pancreatitis through suppressing apoptosis and inflammation. BMC complementary medicine and therapies, 23(1), 23.

Wu H, et al. (2023) Phospholipase D2 targeted by miR-5132-5p alleviates cerulein-induced acute pancreatitis via the Nrf2/NF- κ B pathway. *Immunity, inflammation and disease*, 11(5), e831.

Hörmann AA, et al. (2023) Effect of N-Terminal Peptide Modifications on In Vitro and In Vivo Properties of ¹⁷⁷Lu-Labeled Peptide Analogs Targeting CCK2R. *Pharmaceutics*, 15(3).

Zheng Z, et al. (2023) Acinous cell AR42J-derived exosome miR125b-5p promotes acute pancreatitis exacerbation by inhibiting M2 macrophage polarization via PI3K/AKT signaling pathway. *World journal of gastrointestinal surgery*, 15(4), 600.

Wang Q, et al. (2022) The lncRNA TCONS_00021785/miR-21-5p/Trim33 axis regulates VMP1-mediated zymophagy, reduces the activation of trypsinogen, and promotes acinar cell recovery. *Cell death discovery*, 8(1), 65.

Yang X, et al. (2022) Rhein Protects Against Severe Acute Pancreatitis In vitro and In vivo by Regulating the JAK2/STAT3 Pathway. *Frontiers in pharmacology*, 13, 778221.

Otaru S, et al. (2022) Development of [¹⁸F]AmBF3 Tetrazine for Radiolabeling of Peptides: Preclinical Evaluation and PET Imaging of [¹⁸F]AmBF3-PEG7-Tyr3-Octreotide in an AR42J Pancreatic Carcinoma Model. *Bioconjugate chemistry*, 33(7), 1393.

Holzleitner N, et al. (2022) Introduction of a SiFA Moiety into the D-Glutamate Chain of DOTA-PP-F11N Results in Radiohybrid-Based CCK-2R-Targeted Compounds with Improved Pharmacokinetics In Vivo. *Pharmaceutics (Basel, Switzerland)*, 15(12).

Hajnády Z, et al. (2022) OGG1 Inhibition Reduces Acinar Cell Injury in a Mouse Model of Acute Pancreatitis. *Biomedicines*, 10(10).

Kassay N, et al. (2022) Cigarette smoke toxin hydroquinone and misfolding pancreatic lipase variant cooperatively promote endoplasmic reticulum stress and cell death. *PLoS one*, 17(6), e0269936.

Borgna F, et al. (2022) Combination of terbium-161 with somatostatin receptor antagonists-a potential paradigm shift for the treatment of neuroendocrine neoplasms. *European journal of nuclear medicine and molecular imaging*, 49(4), 1113.