Resource Summary Report

Generated by RRID on Sep 9, 2026

PC12

RRID:CVCL_0481
Type: Cell Line

Proper Citation

RRID:CVCL_0481

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_0481

Proper Citation: RRID:CVCL_0481

Description: Cell line PC12 is a Cancer cell line with a species of origin Rattus norvegicus (Rat)

Sex: Male

Disease: Rat adrenal gland pheochromocytoma

Defining Citation: PMID:682602, PMID:1065897, PMID:2187480, PMID:2493070, PMID:2759161, PMID:6500171, PMID:8282765, PMID:9886495, PMID:15541571, PMID:16223334, PMID:18005394, PMID:22538498, PMID:33171774, PMID:34348336

Comments: Characteristics: Responds reversibly to NGF by induction of a neuronal phenotype., Group: Space-flown cell line (cellonaut).

Category: Cancer cell line

Organism: Rattus norvegicus (Rat)

Name: PC12

Synonyms: PC-12, PC 12, PC12.1

Cross References: BTO:BTO_0001009, CLO:CLO_0008392, CLO:CLO_0050821, EFO:EFO_0001225, MCCL:MCC:0000379, CLDB:cl3876, CLDB:cl3877, CLDB:cl3878, CLDB:cl4922, CLDB:cl5245, Abcam:ab279978, AddexBio:C0032001/4927, ATCC:CRL-1721, BCRC:60048, BCRJ:0203, CCRID:1101RAT-PUMC000024, CCRID:3101RATSCSP517, CCRID:3101RATTCR3, CCRID:4201RAT-CCTCC00006, CCRID:5301RAT-KCB07036YJ, CCTCC:GDC0006, ChEMBL-Cells:CHEMBL3307976, ChEMBL-Targets:CHEMBL612556, CLS:500311, DSMZ:ACC-159, DSMZCellDive:ACC-159, ECACC:88022401, ICLC:ATL98004, IZSLER:BS TCL 91, JCRB:IFO50278,

JCRB:JCRB0733, KCB:KCB 200735YJ, KCB:KCB 200736YJ, KCB:KCB 93033YJ, KCLB:21721, Lonza:124, MeSH:D016716, NCBI_Iran:C153, PubChem_Cell_line:CVCL_0481, RCB:RCB0009, TOKU-E:2867, TOKU-E:3554, Ubigene:YC-C047, Wikidata:Q7118481

ID: CVCL_0481

Record Creation Time: 20220427T221414+0000

Record Last Update: 20260905T182030+0000

Ratings and Alerts

No rating or validation information has been found for PC12.

No alerts have been found for PC12.

Data and Source Information

Source: Cellosaurus

Usage and Citation Metrics

We found 3886 mentions in open access literature.

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

Lee S, et al. (2026) Synthetic serum markers enable noninvasive monitoring of gene expression in primate brains. Neuron, 114(10), 1751.

Mohr J, et al. (2026) Multimodal Imaging Reveals Rapid Catecholamine Uptake and Release by Neutrophils. Advanced science (Weinheim, Baden-Wurttemberg, Germany), e24193.

Yang T, et al. (2026) "Membrane-Guided" Repair Strategy: Precision Delivery of GGT1 Degrader for Targeted Repair and Regeneration of Spinal Cord Neurons. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 13(42), e75554.

Zamora F, et al. (2026) Docosahexaenoic Acid Modulates Autophagy and Confers Neuronal Resilience under Hypoxia-Reoxygenation Stress. Journal of molecular neuroscience : MN, 76(2).

Shin N, et al. (2026) Neutrophil-Like Mitochondria Enable Blood-Brain Barrier Transmigration and Neuroprotection. ACS nano, 20(21), 15116.

Cui C, et al. (2026) Aggregation-Enhanced Piezoelectric Nanotransducers Facilitate Transgene-Free Wireless Neurostimulation under Low-Intensity Focused Ultrasound. ACS nano, 20(1), 835.

Zhang C, et al. (2026) Quantification of Single-Cell Cysteine Using an Electrochemical Nanosensor for Predicting Tumor Disulfidptosis Susceptibility. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 13(13), e23478.

Li L, et al. (2026) Targeting G3BP1 Condensate Topology Promotes Stress Granule Assembly via m6A-IGF2BP1 for Ischemic Stroke Rescue. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 13(6), e14703.

Wang W, et al. (2026) Nanotherapeutic Macrophage-Neuro Reprogramming Through Immunometabolic Crosstalk Mitigates Sepsis-Induced Lung Injury and Neurologic Damage. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 13(24), e20665.

Shi X, et al. (2026) 3D-Printed, Cellulose-Derived Scaffold Promotes Neuroregeneration and Functional Recovery after Spinal Cord Injury. ACS biomaterials science & engineering, 12(3), 1814.

Li ZT, et al. (2026) Natural Product Rengyolone Attenuates LPS-Induced Microglia Inflammation via Suppression of the TLR4/NF-??B Pathway. Chemistry & biodiversity, 23(5), e71314.

He ZNT, et al. (2026) H2S induces apoptosis of tumors with high IDO1 expression via NR4A1-BCL-2 and SOCS3 pathways. Cellular & molecular biology letters, 31(1).

Ying X, et al. (2026) Exercise-derived exosomal miR-151-3p: An innovative anti-inflammatory and antioxidant therapeutic for spinal cord injury. Bioactive materials, 65, 535.

Cidem A, et al. (2026) BLF stimulates neuronal differentiation via activation of p35/CDK5 signaling and AMPK-mediated mitochondrial regulation. Neurochemistry international, 192, 106106.

Zhou D, et al. (2026) Stepwise Regulation of Cellular Oxidative Stress via Conductive-Piezoelectric Integrated Microstructured Conduits for Enhanced Nerve Regeneration. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 13(13), e16124.

Zhai Z, et al. (2026) Rationalizing nose-to-brain drug delivery: Machine learning-guided optimization and mechanistic elucidation of olfactory deposition for nasal sprays. Journal of controlled release : official journal of the Controlled Release Society, 392, 114667.

Nigri J, et al. (2026) Myofibroblasts Induce Neuroplasticity to Promote Pancreatic Inflammation and Cancer Progression. Cancer discovery, 16(5), 1014.

Pavan B, et al. (2026) A new microphysiological platform to study the permeation of neuroactive agents across intestinal and brain barriers. Biofabrication, 18(2).

Wu C, et al. (2026) Engineered exosomes mediated siNox4 delivery loaded polyzwitterionic hydrogel with electrophysiologic conductivity for synergistic treatment of spinal cord injury via suppressing neuronal ferroptosis. Biomaterials, 331, 124096.

Han KJ, et al. (2026) Molecular Mechanistic Studies on Caffeoylquinic Acid Derivatives From Vaccinium dunalianum Wight as Dual-Target Inhibitors of AChE and BChE With In Vitro Inhibitory Evaluation and Molecular Docking. Chemistry & biodiversity, 23(5), e03013.