Resource Summary Report

Generated by NIF on Aug 1, 2026

ARPE-19

RRID:CVCL_0145
Type: Cell Line

Proper Citation

CCTCC Cat# GDC0323, RRID:CVCL_0145

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_0145

Proper Citation: CCTCC Cat# GDC0323, RRID:CVCL_0145

Description: Cell line ARPE-19 is a Spontaneously immortalized cell line with a species of origin Homo sapiens (Human)

Sex: Male

Defining Citation: PMID:8698076, PMID:11504951, PMID:14551534, PMID:16262907, PMID:21697133, PMID:24251032, PMID:25177495, PMID:27499609, PMID:28978645, PMID:29476476, PMID:30167441, PMID:31254428, PMID:31412689

Comments: Anecdotal: The number 19 in the cell line name is due to the fact that this cell line was established from a 19-year-old male who died from head trauma in a motor vehicle accident.

Category: Spontaneously immortalized cell line

Organism: Homo sapiens (Human)

Name: ARPE-19

Synonyms: ARPE19, Adult Retinal Pigment Epithelial cell line-19, NTC-200, NTC200

Cross References: BTO:BTO_0002335, CLO:CLO_0001749, EFO:EFO_0006271, MCCL:MCC:0000038, ATCC:CRL-2302, BCRC:60383, BCRJ:0041, BioSample:SAMN03471862, CCRID:3101HUMGNHu45, CCRID:4201HUM-CCTCC00323, CCTCC:GDC0323, ChEMBL-Cells:CHEMBL4295388, ChEMBL-Targets:CHEMBL4296399, CLS:305025, ENCODE:ENCBS054LTE, ENCODE:ENCBS534TJM, GEO:GSM1227434, IZSLER:BS CL 193, Lonza:871, MetaboLights:MTBLS213, PRIDE:PXD006125, PRIDE:PXD006269, PRIDE:PXD009607, PubChem_Cell_line:CVCL_0145, Ubigene:YC-C033, Wikidata:Q28812659

ID: CVCL_0145

Vendor: CCTCC

Catalog Number: GDC0323

Record Creation Time: 20220427T215222+0000

Record Last Update: 20260726T002313+0000

Ratings and Alerts

No rating or validation information has been found for ARPE-19.

No alerts have been found for ARPE-19.

Data and Source Information

Source: Cellosaurus

Usage and Citation Metrics

We found 1879 mentions in open access literature.

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

Ferreira JV, et al. (2026) LAMP2A regulates endosomal protein composition and membrane identity in exosome biogenesis. iScience, 29(1), 114305.

Wang W, et al. (2026) The rs713586 risk variant dysregulates ADCY3 rather than DNAJC27, leading to obesity through ZFP42-TET1-mediated DNA methylation. EBioMedicine, 123, 106112.

Gao FF, et al. (2026) GSK3?/HIF-1? signaling-dependent anti-parasite effect of Cynanchi atrati Radix. iScience, 29(1), 114292.

Dörschmann P, et al. (2025) Influence of a Very High-Molecular Weight Fucoidan from Laminaria hyperborea on Age-Related Macular Degeneration-Relevant Pathomechanisms in Ocular Cell Models. Marine drugs, 23(3).

Ono T, et al. (2025) PNPLA6 regulates retinal homeostasis by choline through phospholipid turnover. Nature communications, 16(1), 2221.

Li D, et al. (2025) Leveraging AAV1-Rac1T17N to prevent experimental proliferative vitreoretinopathy. Journal of translational medicine, 23(1), 374.

Santana-Garrido Á, et al. (2025) Unveiling protective mechanisms of wild olive (acebuche) oil in retinal pigment epithelial cells with hypertensive phenotype. The Journal of physiology.

Zhang Z, et al. (2025) The role of lactate metabolism in retinoblastoma tumorigenesis and ferroptosis resistance. Tissue & cell, 95, 102893.

Norris MJ, et al. (2025) The GATE glycoprotein complex enhances human cytomegalovirus entry in endothelial cells. Nature microbiology, 10(7), 1605.

Kumar R, et al. (2025) The HCMV tegument protein UL88 degrades MyD88 and reduces innate immune activation. Journal of virology, 99(8), e0041425.

Zhao J, et al. (2025) PDZK1 Protects Against RPE Senescence by Targeting the 14-3-3?-mTOR Axis to Attenuate Early Diabetic Retinopathy. Advanced science (Weinheim, Baden-Wurttemberg, Germany), e11288.

Yildiz E, et al. (2025) Magnetically Controllable and Degradable Milliscale Swimmers as Intraocular Drug Implants. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 12(34), e07569.

Stauber D, et al. (2025) CRISPR-Cas13d-Mediated Targeting of a Context-Specific Essential Gene Enables Selective Elimination of Uveal Melanoma. bioRxiv : the preprint server for biology.

Bond C, et al. (2025) Heterogeneity of late endosome/lysosomes shown by multiplexed DNA-PAINT imaging. The Journal of cell biology, 224(1).

Bday J, et al. (2025) Arginase Activity Inhibition With Thymoquinone Induces a Hybrid Type of Cell-Death in MDA-MB-231 Cell Line. Journal of biochemical and molecular toxicology, 39(2), e70130.

Reinders M, et al. (2025) ATXN3 regulates lysosome regeneration after damage by targeting K48-K63-branched ubiquitin chains. The EMBO journal, 44(18), 5086.

Ang KH, et al. (2025) PRL3-zumab as an anti-angiogenic therapy in neovascular eye diseases. Nature communications, 16(1), 4791.

Wu C, et al. (2025) Structural basis of human cytomegalovirus neutralization by gB AD-5-specific potent antibodies. Cell reports, 44(5), 115646.

Maassen F, et al. (2025) The human cytomegalovirus-encoded pUS28 antagonizes CD4+ T cell recognition by targeting CIITA. eLife, 14.

Toifl S, et al. (2025) RAF1 kinase contributes to autophagic lysosome reformation. Cell reports, 44(4), 115490.