

Resource Summary Report

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ARPE-19

RRID:CVCL_0145

Type: Cell Line

Proper Citation

CLS Cat# 305025, RRID:CVCL_0145

Cell Line Information

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

Proper Citation: CLS Cat# 305025, 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: CLS

Catalog Number: 305025

Record Creation Time: 20220923T070326+0000

Record Last Update: 20260830T000531+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 1897 mentions in open access literature.

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

Zhang S, et al. (2026) NuSAP Safeguards Centriole Integrity to Mediate CEP57-CEP152 Torus Recruitment for Proper Engagement. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 13(19), e15192.

Abélanet S, et al. (2026) EFA6A regulates retinal function through the control of photoreceptor cell activity and structure. *iScience*, 29(4), 115179.

Chen X, et al. (2026) Deep Proteomic Analysis With Machine Learning Identifies Aqueous Humor Biomarkers of ADAMTSL4-associated Congenital Ectopia Lentis. *Investigative ophthalmology & visual science*, 67(8), 29.

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

Trivedi N, et al. (2026) Dapagliflozin prevents methylglyoxal-induced retinal cell death in ARPE-19 cells. *FEBS open bio*, 16(6), 1150.

Tsao YC, et al. (2026) Bortezomib Inhibits Cellular Proliferation and Inflammation in a Mouse Model of Proliferative Vitreoretinopathy. *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*, 40(3), e71513.

Stevens Barron JC, et al. (2026) Antiproliferative Activity of α -Tocopherol, γ -Tocopherol and Tocotrienols and Their Drug Interactions Evaluated Using Loewe and Chou-Talalay Models in HeLa and MCF-7 Cancer Cell Lines. *Biomedicines*, 14(2).

Westbay JH, et al. (2026) Synthesis and characterization of an injectable telechelic material for the epiretinal delivery of retinal gene therapies. *Journal of materials chemistry. B*, 14(12), 3703.

Wang JZ, et al. (2026) UC2288 decreases the viability and metastatic activity of human Uveal melanoma cells via activating the AMPK/eIF2/ATF4 ER stress axis. *European journal of pharmacology*, 1019, 178784.

Li J, et al. (2026) PLGA nanoparticles restore acidic pH and degradative function to compromised lysosomes with Cy3-labeling providing enhanced tracking to lysosomes. *American journal of physiology. Cell physiology*, 330(2), C509.

Zhang J, et al. (2026) Microglia-derived exosomal miR-31-5p promotes type 2 diabetic retinopathy by impairing physiological angiogenesis homeostasis. *Free radical biology & medicine*, 254, 527.

Contreras PS, et al. (2026) Differential contribution of TFE3 isoforms to cell motility and invasion. *EMBO reports*, 27(2), 471.

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

Bilir EK, et al. (2026) In Vitro Ocular Cytotoxicity of BEE Venom in ARPE-19, NTM5, HCET, and HCEC-12 Cell Lines. *Cell biochemistry and biophysics*, 84(2), 2907.

Hacker F, et al. (2026) Fucoidan from *Fucus vesiculosus* Protects Retinal Pigment Epithelium from Lipid-Induced Damage Related to AMD. *Marine drugs*, 24(2).

Zhang Y, et al. (2026) A sequential dual-drug delivery system for multi-target inhibition of subretinal fibrosis. *Journal of nanobiotechnology*, 24(1).

Sujitjorn J, et al. (2026) B7-H3 and GD2 overexpression as immunotherapeutic targets in retinoblastoma. *Scientific reports*, 16(1), 4210.

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.

Liu X, et al. (2026) Proximity labeling proteomics maps radial glial ciliary proteins across the developing telencephalon. *Cell reports*, 45(5), 117355.

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