

# Resource Summary Report

Generated by [FDI Lab - SciCrunch.org](https://www.fdi-lab.com) on Apr 1, 2025

## ARPE-19

RRID:CVCL\_0145

Type: Cell Line

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### Proper Citation

(IZSLER Cat# BS CL 193, RRID:CVCL\_0145)

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### Cell Line Information

**URL:** [https://web.expasy.org/cellosaurus/CVCL\\_0145](https://web.expasy.org/cellosaurus/CVCL_0145)

**Proper Citation:** (IZSLER Cat# BS CL 193, RRID:CVCL\_0145)

**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., Omics: Transcriptome analysis by microarray., Omics: Metabolome analysis., Omics: Deep quantitative phosphoproteome analysis., Omics: Deep proteome analysis.

**Category:** Spontaneously immortalized cell line

**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:** IZSLER

**Catalog Number:** BS CL 193

**Record Creation Time:** 20250131T193933+0000

**Record Last Update:** 20250131T194149+0000

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## Ratings and Alerts

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

No alerts have been found for ARPE-19.

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## Data and Source Information

**Source:** [Cellosaurus](#)

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## Usage and Citation Metrics

We found 1856 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [FDI Lab - SciCrunch.org](#).

Zhao A, et al. (2024) Circ\_0053943 complexed with IGF2BP3 drives uveal melanoma progression via regulating N6-methyladenosine modification of Epidermal growth factor receptor. *Oncology research*, 32(5), 983.

Samer C, et al. (2024) Multi-targeted loss of the antigen presentation molecule MR1 during HSV-1 and HSV-2 infection. *iScience*, 27(2), 108801.

Yin J, et al. (2024) Gentiopicroside inhibits retinoblastoma cell proliferation, invasion, and tumorigenesis in nude mice by suppressing the PI3K/AKT pathway. *Naunyn-Schmiedeberg's archives of pharmacology*, 397(2), 1003.

Ma X, et al. (2024) A programmable targeted protein-degradation platform for versatile applications in mammalian cells and mice. *Molecular cell*.

Singh S, et al. (2024) Targeting ABCG1 and SREBP-2 mediated cholesterol homeostasis ameliorates Zika virus-induced ocular pathology. *iScience*, 27(3), 109088.

Mao L, et al. (2024) Olgotrelvir, a dual inhibitor of SARS-CoV-2 Mpro and cathepsin L, as a standalone antiviral oral intervention candidate for COVID-19. *Med (New York, N.Y.)*, 5(1), 42.

Haase A, et al. (2024) New retinoblastoma (RB) drug delivery approaches: anti-tumor effect of atrial natriuretic peptide (ANP)-conjugated hyaluronic-acid-coated gold nanoparticles for intraocular treatment of chemoresistant RB. *Molecular oncology*.

Lunegova DA, et al. (2024) Antioxidant properties of the soluble carotenoprotein AstaP and its feasibility for retinal protection against oxidative stress. *The FEBS journal*.

Tao W, et al. (2024) Single-cell senescence identification reveals senescence heterogeneity, trajectory, and modulators. *Cell metabolism*, 36(5), 1126.

van Gemert F, et al. (2024) ADARp150 counteracts whole genome duplication. *Nucleic acids research*, 52(17), 10370.

Gahlot P, et al. (2024) Lysosomal damage sensing and lysophagy initiation by SPG20-ITCH. *Molecular cell*.

Wong CH, et al. (2024) Genome-scale requirements for dynein-based transport revealed by a high-content arrayed CRISPR screen. *The Journal of cell biology*, 223(5).

Walker TJ, et al. (2024) Loss of tumor suppressor TMEM127 drives RET-mediated transformation through disrupted membrane dynamics. *eLife*, 12.

Longo M, et al. (2024) Opposing roles for AMPK in regulating distinct mitophagy pathways. *Molecular cell*, 84(22), 4350.

Okano F, et al. (2023) Identification of Membrane-expressed CAPRIN-1 as a Novel and Universal Cancer Target, and Generation of a Therapeutic Anti-CAPRIN-1 Antibody TRK-950. *Cancer research communications*, 3(4), 640.

Zhang ZY, et al. (2023) Promotion of axon regeneration and protection on injured retinal ganglion cells by rCXCL2. *Inflammation and regeneration*, 43(1), 31.

Zhao N, et al. (2023) Generation of host-directed and virus-specific antivirals using targeted protein degradation promoted by small molecules and viral RNA mimics. *Cell host & microbe*, 31(7), 1154.

Zhu JY, et al. (2023) Hyperglycemia-regulated tRNA-derived fragment tRF-3001a propels neurovascular dysfunction in diabetic mice. *Cell reports. Medicine*, 4(10), 101209.

Dörschmann P, et al. (2023) Comparison of Fucoidans from *Saccharina latissima* Regarding Age-Related Macular Degeneration Relevant Pathomechanisms in Retinal Pigment Epithelium. *International journal of molecular sciences*, 24(9).

Mayca Pozo F, et al. (2023) MYO10 regulates genome stability and cancer inflammation through mediating mitosis. *Cell reports*, 42(5), 112531.