

Resource Summary Report

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HTR-8/SVneo

RRID:CVCL_7162

Type: Cell Line

Proper Citation

CLS Cat# 305221, RRID:CVCL_7162

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_7162

Proper Citation: CLS Cat# 305221, RRID:CVCL_7162

Description: Cell line HTR-8/SVneo is a Transformed cell line with a species of origin Homo sapiens (Human)

Sex: Sex unspecified

Defining Citation: [PMID:7684692](#), [PMID:23325432](#), [PMID:28161053](#), [PMID:33096371](#), [PMID:33810901](#)

Comments: Karyotypic information: Near triploid karyotype (PubMed=33096371)., Characteristics: Contains both epithelial and mesenchymal-like cell populations (PubMed=28161053)., Characteristics: Useful to study trophoblast and placental biology (ATCC=CRL-3271)., Part of: ENCODE project common cell types; tier 3.

Category: Transformed cell line

Organism: Homo sapiens (Human)

Name: HTR-8/SVneo

Synonyms: HTR-8/SV neo, HTR-8/SV-neo, HTR8/SVneo, HTR8svn

Cross References: BTO:BTO_0004125, EFO:EFO_0005709, ATCC:CRL-3271, CLS:305221, ENCODE:ENCBS331AAA, GEO:GSM816644, TOKU-E:4099, Ubigene:YC-C050, Wikidata:Q54896677

ID: CVCL_7162

Vendor: CLS

Catalog Number: 305221

Hierarchy: cvcl_d728

Record Creation Time: 20250130T071932+0000

Record Last Update: 20260726T001728+0000

Ratings and Alerts

No rating or validation information has been found for HTR-8/SVneo.

No alerts have been found for HTR-8/SVneo.

Data and Source Information

Source: [CelloSaurus](#)

Usage and Citation Metrics

We found 668 mentions in open access literature.

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

Song G, et al. (2026) Excessive Kynurenine Metabolism Impairs Lysosomal acidification and Triggers mtDNA Release via the AHR/CISH/ATP6V1A Axis in Decidual Macrophages Associated with Unexplained Recurrent Pregnancy Loss. International journal of biological sciences, 22(2), 895.

Zhang X, et al. (2026) Downregulation of the biological macromolecule Spondin-2 disrupts maternal-fetal immune tolerance and trophoblast invasion, driving unexplained recurrent pregnancy loss. International journal of biological macromolecules, 338(Pt 1), 149672.

Jiang N, et al. (2025) The Effect of FPR2 on the Regulation of Trophoblast Autophagy via the PI3K/AKT/mTOR Signaling Pathway in Preeclampsia. FASEB journal : official publication of the Federation of American Societies for Experimental Biology, 39(11), e70697.

Hosking MP, et al. (2025) Preferential tumor targeting of HER2 by iPSC-derived CAR T cells engineered to overcome multiple barriers to solid tumor efficacy. Cell stem cell, 32(7), 1087.

Wang M, et al. (2025) Interactive effects of Bisphenol F exposure and TLR4 rs4986790 on unexplained miscarriage. EBioMedicine, 121, 105968.

Liu CC, et al. (2025) α -adrenergic agonist counters oxidative stress and Na⁺-K⁺ pump inhibitory S-glutathionylation of placental cells: implications for preeclampsia. American journal of physiology. Cell physiology, 328(1), C27.

Lv J, et al. (2025) Gestational exposure to PM2.5 impaired cardiac development through ANGPTL4-mediated mitochondrial metabolic dysfunction. Journal of advanced research.

Hu C, et al. (2024) Endometrial BMP2 Deficiency Impairs ITGB3-Mediated Trophoblast Invasion in Women With Repeated Implantation Failure. *Endocrinology*, 165(3).

Zhang S, et al. (2024) ZIKV induces P62-mediated autophagic degradation of TRAF6 through TRAF6-NS1 interaction. *iScience*, 27(9), 110757.

Merech F, et al. (2024) Monocyte immunometabolic reprogramming in human pregnancy: contribution of trophoblast cells. *American journal of physiology. Endocrinology and metabolism*, 326(3), E215.

Merech F, et al. (2024) Vasoactive intestinal peptide induces metabolic rewiring of human-derived cytotrophoblast cells to promote cell migration. *Biochimica et biophysica acta. Molecular cell research*, 1872(2), 119886.

Dong X, et al. (2024) ST6GALNAC1-mediated sialylation in uterine endometrial epithelium facilitates the epithelium-embryo attachment. *Journal of advanced research*.

Campodonico W, et al. (2024) The gag-like gene RTL8 antagonizes PEG10-mediated virus like particles. *PloS one*, 19(12), e0310946.

Zhi Y, et al. (2024) CXC chemokine receptor type 5 may induce trophoblast dysfunction and participate in the processes of unexplained missed abortion, wherein p-ERK and interleukin-6 may be involved. *Heliyon*, 10(11), e31465.

Deng J, et al. (2023) H3K27me3-modulated Hofbauer cell BMP2 signalling enhancement compensates for shallow trophoblast invasion in preeclampsia. *EBioMedicine*, 93, 104664.

Wu S, et al. (2023) Identification of potential quality markers of Zishen Yutai pill based on spectrum-effect relationship analysis. *Frontiers in pharmacology*, 14, 1211304.

Zhu Q, et al. (2023) Abnormal expression of SLIT3 induces intravillous vascularization dysplasia in ectopic pregnancy. *PeerJ*, 11, e14850.

Chen J, et al. (2023) Snail mediates GDF-8-stimulated human extravillous trophoblast cell invasion by upregulating MMP2 expression. *Cell communication and signaling : CCS*, 21(1), 93.

Zhang C, et al. (2023) Mechanisms underlying the improvement of preeclampsia through salvianolic acid B-regulated miRNA-155/CXCR4. *Archives of medical science : AMS*, 19(2), 430.

Sa R, et al. (2023) High TXNIP expression accelerates the migration and invasion of the GDM placenta trophoblast. *BMC pregnancy and childbirth*, 23(1), 235.