

Resource Summary Report

Generated by [NIF](#) on Aug 3, 2026

HaCaT

RRID:CVCL_0038

Type: Cell Line

Proper Citation

RRID:CVCL_0038

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_0038

Proper Citation: RRID:CVCL_0038

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

Sex: Male

Defining Citation: [PMID:2450098](#), [PMID:8162337](#), [PMID:8504475](#), [PMID:9290701](#), [PMID:9406811](#), [PMID:10350023](#), [PMID:10523843](#), [PMID:11416159](#), [PMID:11583982](#), [PMID:15389883](#), [PMID:16957166](#), [PMID:20097197](#), [PMID:20100199](#), [PMID:21185708](#), [PMID:21269460](#), [PMID:21868764](#), [PMID:24155234](#), [PMID:26989177](#), [PMID:29468137](#), [PMID:29660373](#), [PMID:31629070](#), [PMID:32938951](#), [PMID:33718544](#), [PMID:35072517](#), [PMID:35647242](#)

Comments: Caution: Although HaCaT is distributed by a number of sources, the only official DKFZ-approved supplier is CLS., Virology: Susceptible to infection by Zika virus (ZIKV) (PubMed=29468137)., Population: Caucasian., Part of: Human Protein Atlas, Cell Atlas panel.

Category: Spontaneously immortalized cell line

Organism: Homo sapiens (Human)

Name: HaCaT

Synonyms: HaCAT, HACAT, HacaT

Cross References: BTO:BTO_0000552, EFO:EFO_0002056, CLDB:cl7229, AddexBio:T0020001/117, BCRJ:0341, CCRID:1101HUM-PUMC000373, CCRID:4201HUM-CCTCC00106, CCTCC:GDC0106, ChEMBL-Cells:ChEMBL3308509, ChEMBL-Targets:ChEMBL614392, CLS:300493, Cosmic:1530737, DSMZ:ACC-771,

DSMZCellDive:ACC-771, GEO:GSE57080, GEO:GSM913344, GEO:GSM913345, GEO:GSM960278, GEO:GSM960279, GEO:GSM960280, GEO:GSM960286, GEO:GSM960287, GEO:GSM960288, GEO:GSM960294, GEO:GSM960295, GEO:GSM960296, GEO:GSM1375594, GEO:GSM1375595, GEO:GSM1375596, GEO:GSM1375597, GEO:GSM1375598, GEO:GSM1375599, GEO:GSM1375600, GEO:GSM1375601, GEO:GSM1375602, GEO:GSM1375603, GEO:GSM1375604, GEO:GSM1375605, GEO:GSM1861816, GEO:GSM1861817, GEO:GSM1861820, GEO:GSM1861821, GEO:GSM2112559, GEO:GSM2112563, GEO:GSM2495796, GEO:GSM2495797, GEO:GSM2495798, GEO:GSM7701420, GEO:GSM7701421, IARC_TP53:1820, ICLC:HL14001, IZSLER:BS CL 168, KCB:KCB 200442YJ, Lonza:56, MeSH:D000084282, MetaboLights:MTBLS127, PRIDE:PXD000496, PRIDE:PXD000670, PRIDE:PXD002460, PRIDE:PXD007789, PRIDE:PXD013113, PRIDE:PXD017536, PRIDE:PXD030700, PRIDE:PXD033538, PubChem_Cell_line:CVCL_0038, TOKU-E:3890, Ubigen:YC-A018, Wikidata:Q5636366

ID: CVCL_0038

Record Creation Time: 20220427T220226+0000

Record Last Update: 20260802T001049+0000

Ratings and Alerts

No rating or validation information has been found for HaCaT.

Warning: Discontinued: BCRJ; 0341

Caution: Although HaCaT is distributed by a number of sources, the only official DKFZ-approved supplier is CLS., Virology: Susceptible to infection by Zika virus (ZIKV) (PubMed=29468137)., Population: Caucasian., Part of: Human Protein Atlas, Cell Atlas panel. **Warning:** Discontinued: ICLC; HL14001

Caution: Although HaCaT is distributed by a number of sources, the only official DKFZ-approved supplier is CLS., Virology: Susceptible to infection by Zika virus (ZIKV) (PubMed=29468137)., Population: Caucasian., Part of: Human Protein Atlas, Cell Atlas panel. **Warning:** Discontinued: DSMZ; ACC-771

Caution: Although HaCaT is distributed by a number of sources, the only official DKFZ-approved supplier is CLS., Virology: Susceptible to infection by Zika virus (ZIKV) (PubMed=29468137)., Population: Caucasian., Part of: Human Protein Atlas, Cell Atlas panel.

Data and Source Information

Source: [Cellosaurus](#)

Usage and Citation Metrics

We found 6138 mentions in open access literature.

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

Jin J, et al. (2026) Synergistic Anti-Cancer Therapy Through Ultrasound-Induced Piezocatalytic Therapy and Tumor Treatment Fields. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 13(2), e11604.

Chaki Borrás ML, et al. (2026) Theranostic Nonstoichiometric, Multivalent Bismuth (Bi)-Based Nanospheres for Selective Spontaneous Melanoma Treatment. *ACS applied materials & interfaces*, 18(1), 780.

Herrera MA, et al. (2026) Mitochondrial fatty acid oxidation is stimulated by red light irradiation. *FEBS letters*, 600(1), 20.

Xu C, et al. (2026) HOMER3 drives oral squamous cell carcinoma progression through TRPV6 calcium influx and TUBB3 microtubule stabilization. *Oncogene*, 45(2), 278.

Xie X, et al. (2026) Early Radial Extracorporeal Shockwave Stimulation on Proximal Tibial Circular Osteotomy Site Enhanced Heterotopic Skin Wound Healing via Small Extracellular Vesicles. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), e17257.

Zhou Y, et al. (2026) Distinct Regulation of the ARF and TAp73 Tumor Suppressor Genes by the Transcription Factor E2F1 Enables Discrimination of Cancer Cells from Normal Growing Cells. *Cells*, 15(1).

Zhou X, et al. (2026) Polyphyllin I mitigates psoriasiform inflammation and prevents relapse by modulating CLEC7A and inhibiting pyroptosis. *Phytomedicine : international journal of phytotherapy and phytopharmacology*, 150, 157658.

Yang B, et al. (2026) Identification of PI3K/AKT/mTOR-related genes as diagnostic biomarkers for cutaneous squamous cell carcinoma. *Biochemistry and biophysics reports*, 45, 102355.

Wang J, et al. (2025) Hyaluronan-Cholesterol nanogels embedding betamethasone for the treatment of skin inflammatory conditions. *International journal of pharmaceutics*, 668, 124978.

Maksimowska V, et al. (2025) Keratinocyte-derived VEGF-A is an essential pro-migratory autocrine mediator, acting through the KDR/GEF-H1/RhoA pathway. *Frontiers in cell and developmental biology*, 13, 1601887.

Özdemir ?, et al. (2025) Investigation of the effect of thymoquinone and doxorubicin on the EGFR/FOXP3 signaling pathway in OVCAR3 human ovarian adenocarcinoma cells. *Acta cirurgica brasileira*, 40, e401725.

Liang JP, et al. (2025) Mitochondrial-dependent apoptosis and STAT3 activation induced by oxidative stress in pemphigus vulgaris. *Scientific reports*, 15(1), 29900.

Han QF, et al. (2025) Skin-Soothing Properties of *Juniperus formosana* Hayata Revealed by Bioactivity-Based Molecular Networking. *Chemistry & biodiversity*, e00498.

Cigrang M, et al. (2025) Pan-inhibition of super-enhancer-driven oncogenic transcription by next-generation synthetic ecteinascidins yields potent anti-cancer activity. *Nature communications*, 16(1), 512.

Genoyer E, et al. (2025) Exposure of negative-sense viral RNA in the cytoplasm initiates innate immunity to West Nile virus. *Molecular cell*, 85(6), 1147.

Lei H, et al. (2025) Overexpression of LMOD1 induces oxidative stress and enhances cell apoptosis of melanoma through the RIG-I like receptor pathway. *Biochimica et biophysica acta. Molecular basis of disease*, 1871(5), 167762.

Bian C, et al. (2025) Ultraviolet radiation induces caspase cleavage and nuclear translocation of heme oxygenase 1 (HO-1) to activate autophagy in skin keratinocytes. *The FEBS journal*.

Sasiadek L, et al. (2025) Human tissue kallikrein 14 induces the expression of IL-6, IL-8, and CXCL1 in skin fibroblasts through protease-activated receptor 1 signaling. *The FEBS journal*.

Ponomarev A, et al. (2025) Evaluation of the Efficacy of Transglutaminase 1 Gene Delivery by Adeno-Associated Virus into Rat and Pig Skin and Safety of ARCI Gene Therapy. *International journal of molecular sciences*, 26(20).

Girisa S, et al. (2025) Mortalin Represents a Promising Therapeutic Target for Oral Cancers: Clinical Relevance and Experimental Evidence for the Activation of Akt/mTOR Signaling. *Cancers*, 17(17).