Resource Summary Report

Generated by RRID on Sep 8, 2026

WA09

RRID:CVCL_9773
Type: Cell Line

Proper Citation

RRID:CVCL_9773

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_9773

Proper Citation: RRID:CVCL_9773

Description: Cell line WA09 is a Embryonic stem cell with a species of origin Homo sapiens (Human)

Sex: Female

Defining Citation: PMID:9804556, PMID:14745950, PMID:16388305, PMID:16919167, PMID:17570852, PMID:17572666, PMID:20641038, PMID:20736931, PMID:21295703, PMID:21936705, PMID:21983960, PMID:22514597, PMID:22802639, PMID:23117585, PMID:24259714, PMID:27293150, PMID:27476965, PMID:27688775, PMID:28435121, PMID:28445466, PMID:28664172, PMID:29246576, PMID:29861859, PMID:30388422, PMID:35805069

Comments: Anecdotal: WA01, WA07, WA09, WA13 and WA14 were the first human embryonic stem cells to be established., From: University of Wisconsin; Madison; USA., Part of: NHBLI Progenitor Cell Biology Consortium (PCBC) collection., Part of: ENCODE project common cell types; tier 3., Group: Clinical grade pluripotent cell line.

Category: Embryonic stem cell

Organism: Homo sapiens (Human)

Name: WA09

Synonyms: WA 09, WA-09, WA9, H9, H9.hESCs, H9 ESC, H9 hES, H9ES, GE09, WAe003-A, WICELLe003-A, WAe009-A, WA09-PCBC, PCBC02hse2014030502, SC14-067, UKERe008-A

Cross References: BTO:BTO_0006062, CLO:CLO_0037313, 4DN:4DNSR9WBB58Z, BioGRID_ORCS_Cell_line:1321, BioSample:SAMN03471903,

BioSamples:SAMEA7769668, CCRID:3101HUMSCSP302, CCRID:3101HUMSCSP307, ENCODE:ENCBS013BRF, ENCODE:ENCBS061KRP, ENCODE:ENCBS113LZP, ENCODE:ENCBS140HIH, ENCODE:ENCBS156LDX, ENCODE:ENCBS220TZB, ENCODE:ENCBS277KDR, ENCODE:ENCBS298AAA, ENCODE:ENCBS299AAA, ENCODE:ENCBS300AAA, ENCODE:ENCBS315DEY, ENCODE:ENCBS375GFI, ENCODE:ENCBS377MXB, ENCODE:ENCBS399JWQ, ENCODE:ENCBS410BMR, ENCODE:ENCBS417MAQ, ENCODE:ENCBS477SFO, ENCODE:ENCBS485PGF, ENCODE:ENCBS532LWE, ENCODE:ENCBS616QKE, ENCODE:ENCBS656LSW, ENCODE:ENCBS692FVF, ENCODE:ENCBS703ZDS, ENCODE:ENCBS741LLD, ENCODE:ENCBS757OPX, ENCODE:ENCBS769EPD, ENCODE:ENCBS808UWK, ENCODE:ENCBS853WXF, ENCODE:ENCBS883RFB, ENCODE:ENCBS996IWU, GEO:GSM239975, GEO:GSM288333, GEO:GSM288335, GEO:GSM288397, GEO:GSM347923, GEO:GSM383878, GEO:GSM383879, GEO:GSM384100, GEO:GSM500936, GEO:GSM569191, GEO:GSM569192, GEO:GSM579901, GEO:GSM579902, GEO:GSM603054, GEO:GSM603055, GEO:GSM605307, GEO:GSM605310, GEO:GSM605314, GEO:GSM605316, GEO:GSM605324, GEO:GSM616127, GEO:GSM616128, GEO:GSM616129, GEO:GSM627785, GEO:GSM637777, GEO:GSM665037, GEO:GSM667608, GEO:GSM667609, GEO:GSM667610, GEO:GSM667611, GEO:GSM667612, GEO:GSM667613, GEO:GSM667616, GEO:GSM667619, GEO:GSM667620, GEO:GSM667621, GEO:GSM667622, GEO:GSM667623, GEO:GSM667625, GEO:GSM667626, GEO:GSM667628, GEO:GSM667629, GEO:GSM667630, GEO:GSM667631, GEO:GSM667632, GEO:GSM667633, GEO:GSM667634, GEO:GSM667635, GEO:GSM667636, GEO:GSM667637, GEO:GSM667638, GEO:GSM667639, GEO:GSM667640, GEO:GSM667643, GEO:GSM669899, GEO:GSM669901, GEO:GSM670053, GEO:GSM674603, GEO:GSM706044, GEO:GSM706059, GEO:GSM706060, GEO:GSM706061, GEO:GSM706062, GEO:GSM706063, GEO:GSM706064, GEO:GSM706066, GEO:GSM706071, GEO:GSM706076, GEO:GSM755488, GEO:GSM755491, GEO:GSM816629, GEO:GSM856731, GEO:GSM860961, GEO:GSM860962, GEO:GSM860963, GEO:GSM862733, GEO:GSM927236, GEO:GSM997555, GEO:GSM997556, GEO:GSM997557, GEO:GSM1040243, GEO:GSM1040313, GEO:GSM1084832, GEO:GSM1084835, GEO:GSM1084943, GEO:GSM1084944, GEO:GSM1084992, GEO:GSM1085015, GEO:GSM1215278, GEO:GSM1215279, GEO:GSM1227088, GEO:GSM1489249, GEO:GSM1489460, GEO:GSM1589800, GEO:GSM1589812, GEO:GSM1589932, GEO:GSM1589944, GEO:GSM1658377, hPSCreg:WAe009-A, IGRhCellID:H9%20p25-2, IGRhCellID:H9%20p34, LINCS_LDP:ES-1001, NIHhESC:NIHhESC-10-0062, PRIDE:PXD003903, PRIDE:PXD006271, SKIP:SKIP001452, SKIP:SKIP001935, TOKU-E:4223, WiCell:wa09, WiCell:wa09-cgmp-material, WiCell:wa09-matched-research, WiCell:wa09-pcbc, Wikidata:Q27555433

ID: CVCL_9773

Record Creation Time: 20220427T221712+0000

Record Last Update: 20260905T182730+0000

Ratings and Alerts

No rating or validation information has been found for WA09.

No alerts have been found for WA09.

Data and Source Information

Source: Cellosaurus

Usage and Citation Metrics

We found 194 mentions in open access literature.

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

Collot R, et al. (2026) IGSF11-VISTA is a critical and targetable immune checkpoint axis in diffuse midline glioma. Cancer cell, 44(3), 641.

O'Hern C, et al. (2026) Protocol to generate immunocompetent human heart-macrophage assembloids for the study of immune-cardiac interactions. STAR protocols, 7(1), 104411.

Liu Y, et al. (2026) 3D bioprinted multifunctional GelMA/TMP scaffold integrated with neural stem cell-derived extracellular vesicles and neural progenitor cells for spinal cord injury repair. Journal of tissue engineering, 17, 20417314261425659.

Quan H, et al. (2026) Generating Microglia-Integrated Cortical Organoids from Human Embryonic Stem Cells. Stem cell reviews and reports, 22(5), 2568.

Zanella E, et al. (2026) Damage-induced i-loops generate eccDNA from repetitive elements. Molecular cell, 86(10), 1856.

Ahuja K, et al. (2026) Human Myelin Spheres for in Vitro Oligodendrocyte Maturation, Myelination and Neurological Disease Modeling. Stem cell reviews and reports, 22(3), 1420.

Fort L, et al. (2026) Actomyosin contractility is a potent suppressor of mesoderm induction by human pluripotent stem cells. The Journal of cell biology, 225(5).

Du R, et al. (2026) TTNPB Promotes Human Pluripotent Stem Cell-to-Neural Stem Cell Transition via Modulation of Chromatin Accessibility and the S-(5'-adenosyl)-L-homocysteine/Choline Metabolic Network. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 13(22), e15648.

Liang PY, et al. (2026) Cardiovascular Organoids With Adjustable Endothelial Composition via SOX17-Engineered hPSCs. Biotechnology and bioengineering.

Zou X, et al. (2026) Self-assembled chamber-like cardiac organoids for modeling cardiac chamber formation and cardiotoxicity assessment. Nature communications, 17(1).

Jovanovic VM, et al. (2026) Scalable hypothalamic neuron differentiation from human pluripotent stem cells suitable for modeling metabolic disorders. Stem cell reports, 21(7), 102958.

Liu Y, et al. (2026) Human PSC-derived organoids model sympathetic ganglion development and its functional crosstalk with the heart. Cell stem cell, 33(1), 29.

Tekguc M, et al. (2026) Engineering scalable vascularized kidney organoids for in vivo glomerular filtration with human endothelial integration. npj biomedical innovations, 3(1), 10.

Huang Z, et al. (2026) Comprehensive Profiling of N6-methyladnosine (m6A) Readouts Reveals Novel m6A Readers That Regulate Human Embryonic Stem Cell Differentiation. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 13(18), e10075.

Nocente MC, et al. (2026) Poising and connectivity of emergent human developmental enhancers in the transition from naive to primed pluripotency. Cell reports, 45(6), 117402.

Vaquié AM, et al. (2026) Adaptaquin is selectively toxic to glioma stem cells through disruption of iron and cholesterol metabolism. Molecular oncology, 20(2), 307.

Park SY, et al. (2026) Multimodal electroconductive PLGA-based scaffold orchestrates neuroprotection and regeneration following severe spinal cord injury. Journal of nanobiotechnology, 24(1), 25.

Wei M, et al. (2026) Mitochondrial Fission Regulator 1-Like Protein Protects the Heart from Ischemia/Reperfusion Injury via Dual Mitochondrial Mechanisms. Research (Washington, D.C.), 9, 1241.

Tian Y, et al. (2026) Unraveling the Morphological and Functional Maturation Mechanisms Underlying Human Neural Development Using iPSCs-Derived Neuronal Model. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 13(18), e12891.

Øhlenschlæger MS, et al. (2026) Modeling Synaptic Maturation From Growth Cone to Synapse in Human Organoids. Journal of neurochemistry, 170(5), e70458.