Resource Summary Report

Generated by RRID on Aug 31, 2026

U-251MG

RRID:CVCL_0021
Type: Cell Line

Proper Citation

RRID:CVCL_0021

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_0021

Proper Citation: RRID:CVCL_0021

Description: Cell line U-251MG is a Cancer cell line with a species of origin Homo sapiens (Human)

Sex: Male

Disease: Astrocytoma

Defining Citation: PMID:77569, PMID:450131, PMID:608846, PMID:833871, PMID:2041050, PMID:3335022, PMID:3518877, PMID:3675803, PMID:4134536, PMID:4369403, PMID:6260907, PMID:6582512, PMID:7693337, PMID:7763724, PMID:8104691, PMID:8878451, PMID:9090379, PMID:9220028, PMID:9230885, PMID:9331090, PMID:9614553, PMID:9842975, PMID:10416987, PMID:10551321, PMID:10560660, PMID:10700174, PMID:14614447, PMID:14655754, PMID:15748285, PMID:15900046, PMID:16232199, PMID:16391870, PMID:16697959, PMID:16957166, PMID:17088437, PMID:17595512, PMID:19372543, PMID:19435942, PMID:20215515, PMID:20593219, PMID:22068913, PMID:22336246, PMID:22347499, PMID:22384151, PMID:22460905, PMID:22570425, PMID:22628656, PMID:23856246, PMID:23933261, PMID:24279929, PMID:24670534, PMID:24810477, PMID:25894527, PMID:25960936, PMID:25984343, PMID:27377824, PMID:27397505, PMID:27582061, PMID:27807467, PMID:28196595, PMID:29716531, PMID:30894373, PMID:30971826, PMID:31068700, PMID:31733513, PMID:33385022, PMID:35839778, PMID:38861359

Comments: Population: Caucasian., Part of: NCI-60 cancer cell line panel., Part of: MD Anderson Cell Lines Project., Part of: JFCR39 cancer cell line panel., Part of: Human Protein Atlas, Cell Atlas panel., Part of: COSMIC cell lines project., Part of: Cancer Dependency Map project (DepMap) (includes Cancer Cell Line Encyclopedia - CCLE).

Category: Cancer cell line

Organism: Homo sapiens (Human)

Name: U-251MG

Synonyms: U-251 MG, U-251-MG, U-251_MG, U251-MG, U251MG, U-251, U251, U251n, U251N, 251 MG, 251MG, 251 MG(6)

Cross References: BTO:BTO_0002035, CLO:CLO_0009456, EFO:EFO_0006498, CLDB:cl4583, AddexBio:C0005029/5016, ArrayExpress:E-MTAB-783, ArrayExpress:E-MTAB-2770, ArrayExpress:E-MTAB-3610, BioGRID_ORCS_Cell_line:351, BioSample:SAMN10988290, cancercelllines:CVCL_0021, CCRID:1101HUM-PUMC000058, CCRID:3101HUMTCHu58, CCRID:4201HUM-CCTCC00093, CCTCC:GDC0093, Cell_Model_Passport:SIDM00111, CGH-DB:155-1, ChEMBL-Cells:CHEMBL3307756, ChEMBL-Targets:CHEMBL615022, CLS:300385, Cosmic:687451, Cosmic:848340, Cosmic:849850, Cosmic:850742, Cosmic:875896, Cosmic:897440, Cosmic:905983, Cosmic:920818, Cosmic:923899, Cosmic:970094, Cosmic:974243, Cosmic:1044250, Cosmic:1066235, Cosmic:1092644, Cosmic:1171225, Cosmic:1175823, Cosmic:1217673, Cosmic:1312345, Cosmic:1436038, Cosmic:1610741, Cosmic:1998487, Cosmic:2367502, Cosmic:2367554, Cosmic:2516042, Cosmic:2550363, Cosmic:2580916, Cosmic-CLP:905983, DepMap:ACH-000232, ECACC:09063001, EGA:EGAS00001000978, GDSC:905983, GEO:GSE66597, GEO:GSM2103, GEO:GSM50180, GEO:GSM50244, GEO:GSM101675, GEO:GSM101677, GEO:GSM101678, GEO:GSM101679, GEO:GSM101680, GEO:GSM101685, GEO:GSM743440, GEO:GSM750795, GEO:GSM799328, GEO:GSM799391, GEO:GSM844718, GEO:GSM844719, GEO:GSM847166, GEO:GSM887720, GEO:GSM888814, GEO:GSM1153398, GEO:GSM1178662, GEO:GSM1178663, GEO:GSM1181247, GEO:GSM1181342, GEO:GSM1670555, GEO:GSM2124691, GEO:GSM7701412, GEO:GSM7701413, Hysigen:TCH-C366, IARC_TP53:2575, ICLC:HTL99014, JCRB:IFO50288, KCB:KCB 200965YJ, Kerafast:EDK001, LiGeA:CCLE_040, LINCS_LDP:LCL-1400, Lonza:105, Lonza:1007, MetaboLights:MTBLS6212, NCI-DTP:U-251, PharmacoDB:U251MG_1629_2019, PRIDE:PXD000589, PRIDE:PXD003539, PRIDE:PXD005940, PRIDE:PXD005942, PRIDE:PXD005946, PRIDE:PXD030304, Progenetix:CVCL_0021, PubChem_Cell_line:CVCL_0021, RCB:RCB0461, SKY/M-FISH/CGH:2825, TOKU-E:4005, Ubigene:YC-D015, Wikidata:Q54973550

ID: CVCL_0021

Record Creation Time: 20220427T221639+0000

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Ratings and Alerts

No rating or validation information has been found for U-251MG.

Warning: Discontinued: RCB; RCB0461
Population: Caucasian., Part of: NCI-60 cancer cell line panel., Part of: MD Anderson Cell Lines Project., Part of: JFCR39 cancer cell line panel., Part of: Human Protein Atlas, Cell Atlas panel., Part of: COSMIC cell lines project., Part of: Cancer Dependency Map project (DepMap) (includes Cancer Cell Line Encyclopedia - CCLE).

Data and Source Information

Source: Cellosaurus

Usage and Citation Metrics

We found 4639 mentions in open access literature.

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

Li X, et al. (2026) Paeonol Inhibits Cell Growth by Inducing Ferroptosis in Human Glioma Cells. Pharmacology research & perspectives, 14(1), e70213.

Mao C, et al. (2026) Small Molecule Cocktail DLC79 Suppresses Gliomagenesis by Activating Ascl1 and Remodeling Transcriptome. Cells, 15(2).

M??nsson LK, et al. (2026) Optogenetic Control of the Integrated Stress Response Limits Glioblastoma Invasion. Cell biochemistry and function, 44(4), e70212.

Zhao K, et al. (2026) Aromatic amino acid metabolism shapes autophagy-mediated adaptation to iron deprivation in glioblastoma cells. Biometals : an international journal on the role of metal ions in biology, biochemistry, and medicine, 39(3), 1167.

Gaiaschi L, et al. (2026) In Vitro Anti-Glioblastoma Activity of a Novel Pt(IV)-Ganoderic Acid A Conjugate. International journal of molecular sciences, 27(6).

Shen Y, et al. (2026) CCL1-AMFR Facilitates Glioblastoma Progression by Modulating the Cross-talk between Glioma Cells and Tumor-Associated Macrophages. Cancer immunology research, 14(4), 676.

Cheng M, et al. (2026) YTHDF3 facilitates DNA damage response by recognizing METTL3-mediated m6A modification to promote chemotherapy resistance in glioblastoma. Cancer letters, 649, 218445.

Rurka P, et al. (2026) A novel quinazolinone insulin receptor inhibitor and its synergy with an EGFR inhibitor in glucose-driven glioblastoma. Molecular oncology.

Zhang Z, et al. (2026) Machine learning model on multi-omics data enables risk stratification and identifies molecular heterogeneity and therapeutic targets in glioblastoma. Molecular cancer, 25(1).

Mendoza N, et al. (2026) Chemical Constituents of Taxodium mucronatum (Cupressaceae) and Some of Its Endophytic Fungi, and Their In Silico and In Vitro Evaluations as SARS-CoV-2 Inhibitors and as Cytotoxic Agents. Chemistry & biodiversity, 23(3), e03702.

Zhang Z, et al. (2026) A Moderate-Affinity Antibody-Drug Conjugate Targeting B7-H3 Exerts Potent Antitumor Efficacy. Pharmaceuticals (Basel, Switzerland), 19(4).

Su H, et al. (2026) Lipid Droplet-Localized Spindle Apparatus Coiled-Coil Protein 1 Regulates Lipid Droplet Distribution. Advanced science (Weinheim, Baden-Wurttemberg,

Germany), e11960.

O'Loughlin TA, et al. (2026) mTORC1 activity suppresses ferroptosis through a SCARB1-dependent HDL-tocopherol uptake pathway. Molecular cell, 86(8), 1546.

Fu L, et al. (2026) Anti-Glioma Activity of Artejasminolide Isolated From Artemisia argyi Based on Bioactivity Evaluation and Network Pharmacology. Chemistry & biodiversity, 23(2), e03722.

Song J, et al. (2026) JOSD1 Deubiquitinates Twist1 and Facilitates Epithelial-Mesenchymal Transition in Glioblastoma. Cell biochemistry and function, 44(4), e70208.

Rahbarlayegh E, et al. (2026) Chronic IFN-?? Exposure Induces Divergent Adaptive Programs in Glioblastoma Subtypes. Cancers, 18(10).

Giannaki M, et al. (2026) Notch Overexpression Potentiates Interferon Signaling in Glioma Cells. Current issues in molecular biology, 48(6).

Jiang AYL, et al. (2026) Glioma chemotherapeutic resistance is tied to membrane electrophysiological properties and glycosylation. Bioengineering & translational medicine, 11(1), e70069.

Zhou S, et al. (2026) Vascular normalization by erianin unleashes CAR-T immunotherapy in glioblastoma. Angiogenesis, 29(2), 18.

Lu B, et al. (2026) Targeting the tumor microenvironment: reprogramming macrophages as a novel therapeutic strategy in FUOM-deficient glioblastoma. Cell death & disease, 17(1).