

Resource Summary Report

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MEG-01

RRID:CVCL_0425

Type: Cell Line

Proper Citation

RRID:CVCL_0425

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_0425

Proper Citation: RRID:CVCL_0425

Description: Cell line MEG-01 is a Cancer cell line with a species of origin Homo sapiens (Human)

Sex: Male

Disease: Blast phase chronic myelogenous leukemia, BCR-ABL1 positive

Defining Citation: [PMID:1742484](#), [PMID:2998511](#), [PMID:3332852](#), [PMID:9738977](#), [PMID:10071072](#), [PMID:10576511](#), [PMID:15843827](#), [PMID:20164919](#), [PMID:20215515](#), [PMID:20809971](#), [PMID:22460905](#), [PMID:26700326](#), [PMID:27277069](#), [PMID:27397505](#), [PMID:30285677](#), [PMID:30332548](#), [PMID:30629668](#), [PMID:30894373](#), [PMID:31068700](#), [PMID:32180119](#), [PMID:35839778](#), [PMID:36982453](#)

Comments: Characteristics: Can be induced to differentiate into megakaryocytes after application of 12-O-tetradecanoyl-13-phorbol acetate (TPA) or valproic acid (VPA) (PubMed=1742484; PubMed=30332548)., Population: Japanese., 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: MEG-01

Synonyms: Meg-01, MEG01, Meg01

Cross References: BTO:BTO_0002581, CLO:CLO_0007668, EFO:EFO_0002232, MCCL:MCC:0000322, CLDB:cl3432, CLDB:cl3433, ArrayExpress:E-MTAB-38, ArrayExpress:E-MTAB-783, ArrayExpress:E-MTAB-2770, ArrayExpress:E-MTAB-3610,

ATCC:CRL-2021, BCRC:60238, BCRJ:0262, BioSample:SAMN01821577, BioSample:SAMN01821648, BioSample:SAMN01821734, BioSample:SAMN03471278, BioSample:SAMN10988184, cancercellines:CVCL_0425, CCRID:1101HUM-PUMC000521, CCRID:3101HUMTCHu197, Cell_Model_Passport:SIDM00526, ChEMBL-Cells:ChEMBL3308539, ChEMBL-Targets:ChEMBL2366084, CLS:300482, Cosmic:787503, Cosmic:908126, Cosmic:924042, Cosmic:1026578, Cosmic:1070702, Cosmic:1078723, Cosmic:1516634, Cosmic:1523830, Cosmic-CLP:908126, DepMap:ACH-000072, DSMZ:ACC-364, DSMZCellDive:ACC-364, ECACC:94012401, EGA:EGAS00001000978, FANTOM5_SSTAR:10752-110D5, GDSC:908126, GEO:GSM482498, GEO:GSM887307, GEO:GSM888383, GEO:GSM1374669, GEO:GSM1670093, IARC_TP53:21491, ICLC:HTL96017, IGRhCellID:MEG01, JCRB:IFO50151, LiGeA:CCLE_381, LINCS_LDP:LCL-1110, Lonza:959, PharmacDB:MEG01_913_2019, PRIDE:PXD030304, Progenetix:CVCL_0425, PubChem_Cell_line:CVCL_0425, Wikidata:Q54905035

ID: CVCL_0425

Record Creation Time: 20220427T220801+0000

Record Last Update: 20260815T234609+0000

Ratings and Alerts

No rating or validation information has been found for MEG-01.

No alerts have been found for MEG-01.

Data and Source Information

Source: [Cellosaurus](#)

Usage and Citation Metrics

We found 156 mentions in open access literature.

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

Llorente-González C, et al. (2026) MYH9 mutations differentially stabilize non-muscle myosin II filaments and induce distinct cellular aggregation phenotypes. Cellular and molecular life sciences : CMLS, 83(1).

Li X, et al. (2026) MELK inhibition promotes megakaryopoiesis and platelet recovery in models of immune thrombocytopenia through ERK/cofilin signaling. Cell reports, 45(5), 117339.

Yokomura M, et al. (2026) Afatinib exerts an inhibitory effect on T cell-mediated cytotoxicity. Cancer immunology, immunotherapy : CII, 75(1), 33.

Fang X, et al. (2026) The Disordered Region of ASXL1 Acts as an Auto-Regulator Through Condensation. Advanced science (Weinheim, Baden-Wurttemberg, Germany),

13(17), e10999.

Ceron-Hernandez J, et al. (2025) Oncogenic KRASG12D Transfer from Platelet-like Particles Enhances Proliferation and Survival in Non-Small Cell Lung Cancer Cells. *International journal of molecular sciences*, 26(7).

Wang X, et al. (2024) LncRNA IRAIN overcomes imatinib resistance in chronic myeloid leukemia via NF- κ B/CD44 pathway inhibition. *iScience*, 27(6), 109851.

Pritchard JE, et al. (2024) Non-canonical Hedgehog signaling mediates profibrotic hematopoiesis-stroma crosstalk in myeloproliferative neoplasms. *Cell reports*, 43(1), 113608.

Dahal S, et al. (2023) Megakaryocyte-Derived IL-8 Acts as a Paracrine Factor for Prostate Cancer Aggressiveness through CXCR2 Activation and Antagonistic AR Downregulation. *Biomolecules & therapeutics*, 31(2), 210.

Lopardo V, et al. (2023) SARS-CoV-2 Lysate Stimulation Impairs the Release of Platelet-like Particles and Megakaryopoiesis in the MEG-01 Cell Line. *International journal of molecular sciences*, 24(5).

Frydman GH, et al. (2023) Megakaryocytes respond during sepsis and display innate immune cell behaviors. *Frontiers in immunology*, 14, 1083339.

Ali AM, et al. (2023) Circulating cancer giant cells with unique characteristics frequently found in patients with myelodysplastic syndromes (MDS). *Medical oncology (Northwood, London, England)*, 40(7), 204.

Yabushita T, et al. (2023) Mitotic perturbation is a key mechanism of action of decitabine in myeloid tumor treatment. *Cell reports*, 42(9), 113098.

Joshi A, et al. (2022) Neutrophil-Derived Protein S100A8/A9 Alters the Platelet Proteome in Acute Myocardial Infarction and Is Associated With Changes in Platelet Reactivity. *Arteriosclerosis, thrombosis, and vascular biology*, 42(1), 49.

Torres-Barrera P, et al. (2022) Cell Contact with Endothelial Cells Favors the In Vitro Maintenance of Human Chronic Myeloid Leukemia Stem and Progenitor Cells. *International journal of molecular sciences*, 23(18).

Dürholz K, et al. (2022) Microbiota-Derived Propionate Modulates Megakaryopoiesis and Platelet Function. *Frontiers in immunology*, 13, 908174.

Puc I, et al. (2022) Mobilization of Hematopoietic Stem and Progenitor Cells during Dengue Virus Infection. *International journal of molecular sciences*, 23(22).

Heo Y, et al. (2022) PAR4-Mediated PI3K/Akt and RhoA/ROCK Signaling Pathways Are Essential for Thrombin-Induced Morphological Changes in MEG-01 Cells. *International journal of molecular sciences*, 23(2).

Onaciu A, et al. (2022) Nanoscale Investigation of DNA Demethylation in Leukemia Cells by Means of Ultrasensitive Vibrational Spectroscopy. *Sensors (Basel, Switzerland)*, 23(1).

Panigrahi S, et al. (2022) Human α -Defensin-3 is Associated With Platelet-Derived Extracellular Vesicles and is a Potential Contributor to Endothelial Dysfunction. *Frontiers in molecular biosciences*, 9, 824954.

Aquino-Domínguez AS, et al. (2022) Human Platelets Contain, Translate, and Secrete Azurocidin; A Novel Effect on Hemostasis. *International journal of molecular sciences*, 23(10).