

Resource Summary Report

Generated by [RRID](#) on Sep 2, 2026

SUM44PE

RRID:CVCL_3424

Type: Cell Line

Proper Citation

RRID:CVCL_3424

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_3424

Proper Citation: RRID:CVCL_3424

Description: Cell line SUM44PE is a Cancer cell line with a species of origin Homo sapiens (Human)

Sex: Female

Disease: Invasive breast lobular carcinoma

Defining Citation: [PMID:8425198](#), [PMID:10424408](#), [PMID:10604729](#), [PMID:10969801](#), [PMID:12353263](#), [PMID:12800145](#), [PMID:15677628](#), [PMID:16397213](#), [PMID:16541312](#), [PMID:17157791](#), [PMID:19582160](#), [PMID:19593635](#), [PMID:23401782](#), [PMID:23601657](#), [PMID:24176112](#), [PMID:24425047](#), [PMID:25757734](#), [PMID:25960936](#), [PMID:30228172](#), [PMID:32715085](#)

Comments: Characteristics: ER-positive, PR-negative and ERBB2-negative., Part of: JWGray breast cancer cell line panel., Part of: Cancer Dependency Map project (DepMap) (includes Cancer Cell Line Encyclopedia - CCLE).

Category: Cancer cell line

Organism: Homo sapiens (Human)

Name: SUM44PE

Synonyms: Sum44PE, SUM-44PE, SUM 44PE, SUM-44 PE, SUM-44, SUM 44, SUM44, Sum44, 44PE

Cross References: BTO:BTO_0005389, EFO:EFO_0001245, ArrayExpress:E-TABM-157, ArrayExpress:E-TABM-244, cancercellines:CVCL_3424, Cell_Model_Passport:SIDM01835, Cosmic:997937, Cosmic:1289408, Cosmic:1460237, DepMap:ACH-001395, GEO:GSM115108, GEO:GSM217603, GEO:GSM320179,

GEO:GSM350531, GEO:GSM421886, GEO:GSM481300, GEO:GSM847438, GEO:GSM847505, GEO:GSM984233, GEO:GSM1053740, GEO:GSM1172997, GEO:GSM1226542, GEO:GSM1226543, GEO:GSM1226544, GEO:GSM1226545, GEO:GSM1226546, GEO:GSM1226547, GEO:GSM1226548, GEO:GSM1226549, GEO:GSM1226550, GEO:GSM1226551, GEO:GSM1226552, GEO:GSM1226553, GEO:GSM1226554, GEO:GSM1226555, GEO:GSM1226556, GEO:GSM1226557, GEO:GSM1226558, GEO:GSM1226559, GEO:GSM1226560, GEO:GSM1226561, GEO:GSM1661990, IARC_TP53:24364, LINCS_HMS:51122, PharmacDB:SUM44PE_1517_2019, Progenetix:CVCL_3424, SLKBase:219, Wikidata:Q54970850

ID: CVCL_3424

Record Creation Time: 20220427T221612+0000

Record Last Update: 20260830T000036+0000

Ratings and Alerts

No rating or validation information has been found for SUM44PE.

No alerts have been found for SUM44PE.

Data and Source Information

Source: [Cellosaurus](#)

Usage and Citation Metrics

We found 12 mentions in open access literature.

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

Liu S, et al. (2026) RET signaling as a mediator of estrogen receptor positive breast cancer brain metastasis. Communications biology.

Sottnik JL, et al. (2026) Altered MDC1 Interactions and Dysfunctional DNA Repair in Lobular Breast Cancer Confers Sensitivity to PARP Inhibition. Cancer research, 86(7), 1605.

Komar ZM, et al. (2025) Curcumin Induces Homologous Recombination Deficiency by BRCA2 Degradation in Breast Cancer and Normal Cells. Cancers, 17(13).

Sottnik JL, et al. (2024) WNT4 Regulates Cellular Metabolism via Intracellular Activity at the Mitochondria in Breast and Gynecologic Cancers. Cancer research communications, 4(1), 134.

Young TA, et al. (2024) Glutamate Transport Proteins and Metabolic Enzymes are Poor Prognostic Factors in Invasive Lobular Carcinoma. bioRxiv : the preprint server for biology.

Olukoya AO, et al. (2023) Riluzole Suppresses Growth and Enhances Response to Endocrine Therapy in ER+ Breast Cancer. *Journal of the Endocrine Society*, 7(10), bvad117.

Elangovan A, et al. (2022) Loss of E-cadherin Induces IGF1R Activation and Reveals a Targetable Pathway in Invasive Lobular Breast Carcinoma. *Molecular cancer research : MCR*, 20(9), 1405.

Chen F, et al. (2021) Single-Cell Transcriptomic Heterogeneity in Invasive Ductal and Lobular Breast Cancer Cells. *Cancer research*, 81(2), 268.

Sottnik JL, et al. (2021) Mediator of DNA Damage Checkpoint 1 (MDC1) Is a Novel Estrogen Receptor Coregulator in Invasive Lobular Carcinoma of the Breast. *Molecular cancer research : MCR*, 19(8), 1270.

Koundouros N, et al. (2020) Metabolic Fingerprinting Links Oncogenic PIK3CA with Enhanced Arachidonic Acid-Derived Eicosanoids. *Cell*, 181(7), 1596.

Sreekumar S, et al. (2020) Differential Regulation and Targeting of Estrogen Receptor ?? Turnover in Invasive Lobular Breast Carcinoma. *Endocrinology*, 161(9).

Chopra SS, et al. (2020) Torin2 Exploits Replication and Checkpoint Vulnerabilities to Cause Death of PI3K-Activated Triple-Negative Breast Cancer Cells. *Cell systems*, 10(1), 66.