

Product sheet

Ca AN3 | 300119

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Description Ca AN3 is a cell line derived from a patient with acute myeloid leukemia (AML). It is characterized by a high degree of heterogeneity and is highly sensitive to chemotherapy. The cell line is maintained in suspension culture in the presence of 10% fetal bovine serum (FBS) in RPMI 1640 medium supplemented with 100 U/ml penicillin, 100 U/ml streptomycin, and 100 U/ml nystatin. The cell line is highly sensitive to chemotherapy and is used for the study of drug resistance mechanisms in AML.

Organism Human

Tissue Blood, Bone Marrow

Disease Acute Myeloid Leukemia

Synonyms AN3_CA, AN3-CA, AN3 Ca, AN3CA, AN-3, AN3, *Ca AN3* - *Ca AN3*

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Age 55 years

Gender Male

Ethnicity Caucasian

Morphology Granulocytic

Cell type Myeloid

Growth properties Adherent

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Citation AN3 Ca (Cytion 300119)

Biosafety level 1

NCBI_TaxID 9606

CellosaurusAccession CVCL_0028

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Characteristics

Isoenzymes	PGM3, 1-2, PGM1, 1, ES-D, 1, AK-1, 1-2, GLO-1, 2, G6PD, B,
Tumorigenic	Yes, tumorigenic in Balb/c mice. In vivo tumorigenicity test: Yes, tumorigenic in Balb/c mice (22%)
Ploidy status	Normal karyotype, karyotype: 0.0054

Media

Culture Medium	EMEM (MEM Eagle), w: 2 mM L-Glutamine, w: 2.2 g/L NaHCO3, w: EBSS (Cytion 820100a)
Supplements	10% FBS + 1% NEAA
Dissociation Reagent	Trypsin
Doubling time	45 - 50 hours
Subculturing	Subculture into T25 flasks, 3-5 x 10^5 cells per flask. Subculture into 96-well plates, 10^4 cells per well.
Seeding density	10^4 - 10^5 cells per well
Fluid renewal	2 - 3 times per week
Post-Thaw Recovery	24 - 48 hours
Freeze medium	EMEM (MEM Eagle), w: 2 mM L-Glutamine, w: 2.2 g/L NaHCO3, w: EBSS (Cytion 820100a) + 10% FBS + 10% DMSO

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Thawing and Culturing Cells

1. Thaw the vial quickly in a 37°C water bath. Do not vortex. Transfer the cells to a pre-warmed medium.
2. Centrifuge at 300 x g for 3 minutes. Resuspend in 150 µl of medium. Seed into a 96-well plate.
3. Incubate at 37°C in 5% CO₂ for 24 hours. Media should be replaced after 24 hours.
4. Harvest cells at 70% confluency.
5. Seed cells into a 96-well plate at 15 µl per well. Incubate at 37°C in 5% CO₂ for 24 hours.
6. Harvest cells at 300 x g for 3 minutes. Resuspend in 100 µl of medium.
7. Seed cells into a 96-well plate at 10 µl per well. Incubate at 37°C in 5% CO₂ for 24 hours.
8. Harvest cells at 300 x g for 3 minutes. Resuspend in 100 µl of medium.

Incubation Atmosphere 37°C, 5% CO₂, humidified

Flask Coating None

Freezing Procedure Harvest cells at 70% confluency. Resuspend in 100 µl of medium. Add 10% FBS. Freeze at -80°C.

Shipping Conditions Store at -80°C. Ship on dry ice.

Storage Conditions Store at -150°C for 196 weeks.

Genotype / HLA

Sterility PCR screening for mycoplasma contamination. Negative results.

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HLA

A*: 03:01:01
B*: '44:02:01, '57:01:01
C*: '05:01:01, '06:02:01
DRB1*: '04:01:01G, '16:01:01
DQA1*: '01:02:02, '03:01:01
DQB1*: 03:02:01, 05:02:01
DPB1*: '05:01:01G, '13:01:01G
E: 01:03:02