

Product sheet

NB-4 | 300299

General Information

Description	NB-4 is a primary culture of human acute promyelocytic leukemia (APL) cells, established from a patient with a t(15;17)(q22;q21) translocation. The cells are characterized by the presence of the PML-RARα fusion protein and are highly sensitive to treatment with all-trans-retinoic acid (ATRA) and arsenic trioxide (ATO). NB-4 cells are used as a model system for studying the biology of APL and for testing novel therapeutic approaches.
Organism	Human
Tissue	Leukemia
Disease	Acute promyelocytic leukemia (APL)
Synonyms	NB4, NB.4

Cell Characteristics

Age	23 years
Gender	Male
Ethnicity	Chinese
Morphology	Granulocytic
Cell type	Leukemia B
Growth properties	Adherent

References and Safety

Citation	NB-4 (ATCC CCL-240) Cytion 300299
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_0005

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HEK293T-CD36 | 300299

HEK293T-CD36

Antigen expression	CD4+, CD14-, CD36-
Reverse transcriptase	+
Karyotype	46,XX,T(15,17)(q22,q11-12)

HEK293T

Culture Medium	RPMI 1640, w: 2.0 mM $\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$, w: 2.0 g/L NaHCO_3 (Cytion 820700a)
Supplements	10% FBS
Doubling time	35-40 hours
Subculturing	1:5 to 1:6
Freeze medium	DMEM (10% FBS) + 10% DMSO

Thawing and Culturing Cells

1. Thaw the cells in a 37°C water bath. Transfer the cells to a 15 mL centrifuge tube and centrifuge at 300 x g for 3 minutes. Remove the supernatant and resuspend the cells in 10 mL of DMEM (10% FBS).
2. Seed the cells into a 75 cm² flask containing 50 mL of DMEM (10% FBS). Incubate the cells at 37°C in 5% CO₂.
3. Once the cells reach 70-80% confluency, passage them into a new 75 cm² flask.
4. Seed the cells into a 15 mL centrifuge tube containing 10 mL of DMEM (10% FBS). Centrifuge at 300 x g for 3 minutes. Resuspend the cells in 10 mL of DMEM (10% FBS).
5. Seed the cells into a 75 cm² flask containing 50 mL of DMEM (10% FBS). Incubate the cells at 37°C in 5% CO₂.
6. Once the cells reach 70-80% confluency, passage them into a new 75 cm² flask.
7. Seed the cells into a 15 mL centrifuge tube containing 10 mL of DMEM (10% FBS). Centrifuge at 300 x g for 3 minutes. Resuspend the cells in 10 mL of DMEM (10% FBS).
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