

Product sheet

IMR-32 | 300148

IMR-32

Description IMR-32 is a human melanoma cell line established in 1973 from a 13-year-old patient with a primary cutaneous melanoma. It is characterized by its high tumorigenicity and ability to form melanin pigment. The cell line is widely used in research on melanoma biology and drug development.

Organism Human

Tissue Melanocytes

Disease Melanoma

Metastatic site Lung

Synonyms IMR 32, IMR32, IMR-32, GM03320, GM3320C, GM03320D, AG03320, AG3320

Characteristics

Age 13 years

Gender Male

Ethnicity Caucasian

Morphology Epithelial

Cell type Melanocytes

Growth properties Adherent

References

Citation IMR-32 (IMR-32) Cytion 300148

Biosafety level 1

NCBI_TaxID 9606

CellSaurusAccession CVCL_0346

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IMR-32 - IMR-32

Isoenzymes	G6PD, B
Virus susceptibility	Adenovirus (Ad5), Herpesvirus, Epstein-Barr virus (EBV), Cytomegalovirus (CMV), HIV-1, HIV-2, Hepatitis B virus (HBV), Hepatitis C virus (HCV), Influenza A virus, Influenza B virus, Measles virus, Mumps virus, Rubella virus, Rotavirus, Vaccinia virus, Varicella-Zoster virus (VZV), West Nile virus, Yellow fever virus
Virus resistance	Adenovirus 11
Reverse transcriptase	None

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Culture Medium	EMEM (MEM Eagle), w: 2 mM L-Glutamine, w: 2.2 g/L NaHCO ₃ , w: EBSS (Cytion 820100a)
Supplements	10% FBS 1% NEAA
Dissociation Reagent	None
Subculturing	1:3 to 1:5 in EMEM + 10% FBS + 1% NEAA + 2 mM L-Glutamine + 2.2 g/L NaHCO ₃ + EBSS (Cytion 820100a) + 10% FBS + 1% NEAA + 2 mM L-Glutamine + 2.2 g/L NaHCO ₃ + EBSS (Cytion 820100a)
Seeding density	1 x 10 ⁴ cells/cm ²
Fluid renewal	3-5 days
Post-Thaw Recovery	1:3 to 1:5 in EMEM + 10% FBS + 1% NEAA + 2 mM L-Glutamine + 2.2 g/L NaHCO ₃ + EBSS (Cytion 820100a) + 10% FBS + 1% NEAA + 2 mM L-Glutamine + 2.2 g/L NaHCO ₃ + EBSS (Cytion 820100a)
Freeze medium	EMEM + 10% FBS + 1% NEAA + 2 mM L-Glutamine + 2.2 g/L NaHCO ₃ + EBSS (Cytion 820100a) + 10% FBS + 1% NEAA + 2 mM L-Glutamine + 2.2 g/L NaHCO ₃ + EBSS (Cytion 820100a) + 10% DMSO

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Thawing and Culturing Cells

1. Thaw the vial rapidly in a water bath at 37°C. Do not allow the cells to reach room temperature. Transfer the cells to a pre-warmed medium.
2. Seed the cells into a pre-warmed flask containing 10-15 mL of medium. Incubate at 37°C with 5% CO₂.
3. Monitor the cells for attachment and growth. Change the medium after 24-48 hours.
4. Once the cells are established, they can be passaged into fresh medium.
5. The cells should reach confluence within 7-10 days.
6. Harvest the cells by trypsinization and centrifugation.
7. Resuspend the cells in a suitable medium for storage or further culture.
8. Store the cells at -150°C in liquid nitrogen for long-term preservation.

Incubation Atmosphere 37°C, 5% CO₂, humidified

Flask Coating Cell culture flasks should be coated with a suitable coating agent.

Freezing Procedure Cells should be frozen at -78°C.

Shipping Conditions Cells should be shipped at -78°C.

Storage Conditions Cells should be stored at -150°C for up to 196 days.

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Sterility Cells are provided in a sterile, cryoprotected medium.

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HLA

A*: '02:01:01, '24:02:01

B*: 07:02:01, 15:01:01

C*: '03:03:01, '07:02:01

DRB1*: 07:01:01, 13:01:01

DQA1*: '01:03:01, '02:01:01

DQB1*: 03:03:02, 06:03:01

DPB1*: '02:01:02, '04:01:01

E: 01:01, 01:03