

NE-4C | 305182

General information

Description	NE-4C is a rat neuroblastoma cell line derived from a 4-day-old rat embryo. It is a highly tumorigenic, undifferentiated cell line that grows in suspension. NE-4C cells are characterized by their high proliferation rate and their ability to form neuroblastoma xenografts in nude mice. They are commonly used in research on neuroblastoma and as a model for studying the differentiation and tumorigenesis of neural crest cells. NE-4C cells are negative for βIII-tubulin, MAP2, and other neuronal markers.
Organism	Rat
Tissue	Neuroblastoma, Embryonic

Genetic information

Breed/Subspecies	C57BL/6 x 129/Sv-Trp53-/-
Age	Passage 10
Morphology	Epithelial, Adherent
Growth properties	High proliferation rate

Identification and safety

Citation	NE-4C (Rat Neuroblastoma) Cytion: 305182
Biosafety level	1
NCBI_TaxID	10090
CellSaurusAccession	CVCL_B063

Antigen expression and markers

Antigen expression	Sox-2, Otx-2, En-1
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Culture conditions

Culture Medium	EMEM (MEM Eagle), w: 2 mM L-Glutamine, w: 2.2 g/L NaHCO3, w: EBSS (Cytion 820100a)
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Supplements 10% FBS 1% NEAA

Dissociation Reagent

Subculturing 1. 2-3 days after seeding, cells are ready for subculturing. 2. Add 1 ml of dissociation reagent to each well. 3. After 3-5 min, add 1 ml of PBS and gently mix. 4. Collect cells and centrifuge at 300 x g for 5 min. 5. Resuspend cells in 1 ml of medium.

Seeding density 1 x 10⁴ cells/cm²

Fluid renewal 2-3 days

Freeze medium 1. Mix 90% FBS and 10% DMSO. 2. Add 100 µl of freeze medium to each well. 3. Freeze cells at -80°C.

Thawing and Culturing Cells

1. Thaw cells quickly in a water bath at 37°C.
2. Add 1 ml of PBS and gently mix.
3. Collect cells and centrifuge at 300 x g for 5 min.
4. Resuspend cells in 1 ml of medium.
5. Seed cells into a well.
6. Add 1 ml of medium.
7. Incubate cells at 37°C.
8. After 2-3 days, cells are ready for subculturing.

Incubation Atmosphere 37°C, 5% CO₂

Shipping Conditions

Cells are shipped in a dry ice container at -78°C.

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Storage Conditions

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Sterility

Abstract

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