

NRK-EGFP-H2B | 500724

General information

Description	NRK-EGFP-H2B is a cell line derived from NRK cells (NRK) expressing EGFP-H2B. The cells are immortalized and have a high growth rate. They are suitable for various applications, including cell biology, molecular biology, and drug screening.
Organism	Mouse
Tissue	Epithelial
Synonyms	NRK EGFP-H2B

Characteristics

Breed/Subspecies	NRK cells
Morphology	Epithelial cells, forming colonies
Growth properties	High growth rate, anchorage dependent

Identification

Citation	NRK-EGFP-H2B (Cytion 500724)
Biosafety level	1
NCBI_TaxID	10116
CellosaurusAccession	CVCL_AV92
Depositor	EMBL

Genetic information

Receptors expressed	EGF, MSA
Protein expression	EGFP-H2B: 1..589 / Pcmv, 613..1329 / EGFP, 1387..1764 / H2B, 3001..3795 / KanR/NeoR

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Products EGF, MSA, CMV Promotor Histone H2B, Neomycin, Phosphotransferase

Media

Culture Medium DMEM, w: 4.5 g/L Glucose, w: 4 mM L-Glutamine, w: 3.7 g/L NaHCO₃, w: 1.0 mM Sodium Pyruvate (Cytion 820300a)

Supplements 10% FBS, 0.5 µg/ml G418

Dissociation Reagent Trypsin

Subculturing Cells are grown in DMEM supplemented with 10% FBS and 0.5 µg/ml G418. For passaging, cells are trypsinized with 0.025% EDTA 0.02% Trypsin (Cytion 820300a) for 3-5 minutes.

Split ratio 1:3 or 1:4

Seeding density 2 x 10⁴ to 4 x 10⁵ cells/cm²

Fluid renewal 2-3 times per week

Freeze medium DMEM supplemented with 10% FBS and 0.5 µg/ml G418 (Cytion 820300a) + 10% DMSO (Cytion 820300a) + 10% FBS (Cytion 820300a)

Thawing and Culturing Cells

1. Thaw cells quickly in a water bath at 37°C. Transfer cells to a pre-warmed medium.
2. Centrifuge cells at 300 x g for 3 minutes. Remove supernatant and resuspend cells in 1 ml of medium.
3. Seed cells into a 24-well plate at a density of 2 x 10⁴ to 4 x 10⁵ cells/cm².
4. Incubate cells in a humidified incubator at 37°C with 5% CO₂.
5. Monitor cell growth and morphology. Cells should reach 70-80% confluency within 2-3 days.
6. Perform a trypsin digest to passage cells. Add 0.5 ml of 0.025% EDTA 0.02% Trypsin (Cytion 820300a) to each well.
7. Incubate cells for 3-5 minutes at 37°C. Add 5 ml of medium to stop the reaction.
8. Centrifuge cells at 300 x g for 3 minutes. Resuspend cells in 1 ml of medium and seed into a new well.

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Incubation Atmosphere 37°C, 5% CO₂, humidified

Flask Coating none

Freezing Procedure Cells are seeded into 6-well plates and grown to confluence. Cells are then trypsinized and resuspended in freezing medium. The suspension is then aliquoted into 1 ml vials and frozen at -78°C.

Shipping Conditions Cells are shipped on dry ice at -78°C.

Storage Conditions Cells are stored at -150 to -196 °C in liquid nitrogen.

Cells are grown in DMEM supplemented with 10% FBS.

Sterility

Cells are grown in DMEM supplemented with 10% FBS. Cells are then trypsinized and resuspended in freezing medium. The suspension is then aliquoted into 1 ml vials and frozen at -78°C.