Product sheet



HK EGFP-alpha-tubulin/H2B-mCherry Cells | 300670

General information

Description This HeLa reporter cell line stably expresses a red chromatin marker (core histone 2B fused to monomeric

Cherry; H2B-mCherry; transfection plasmid: pH2B-mCherry-IRES-neo3) and a marker for microtubules (monomeric enhanced GFP-?-tubulin; transfection plasmid: pmEGFP-a-tubulin-IRES-puro2b). This clonal stable

cell line was generated by transfection of a circular plasmid followed by drug resistance selection.

Organism Human

Tissue Cervix

Disease Carcinoma

Synonyms HeLa Kyoto EGFP-a-tubulin/H2B-mCherry, HeLa H2B-mRFP and mEGFP-alpha-tubulin

Characteristics

Age 30 years

Gender Female

Ethnicity African American

Morphology Epithelial-like cells with mosaic stone shape

Growth Monolayer, adherent **properties**

Identifiers / Biosafety / Citation

Citation HK EGFP-alpha-tubulin/H2B-mCherry (Cytion catalog number 300670)

Biosafety level 1

Depositor Dr. J. Ellenberg, EMBL Heidelberg

Expression / Mutation

Protein EGFP-alpha-tubulin, H2B-mCherry: Location/Gene: 1..589 / Pcmv, 652..1029 H2B, 1042..1752 / mCherry, expression 2983..3777 / KanR/NeoR

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Handling of cryopreserved cultures

- 1. Confirm that the vial remains deeply frozen upon delivery, as cells are shipped on dry ice to maintain optimal temperatures during transit.
- 2. Upon receipt, either store the cryovial immediately at temperatures below -150?C to ensure the preservation of cellular integrity, or proceed to step 3 if immediate culturing is required.
- 3. For immediate culturing, swiftly thaw the vial by immersing it in a 37?C water bath with clean water and an antimicrobial agent, agitating gently for 40-60 seconds until a small ice clump remains.
- 4. Perform all subsequent steps under sterile conditions in a flow hood, disinfecting the cryovial with 70% ethanol before opening.
- 5. Carefully open the disinfected vial and transfer the cell suspension into a 15 ml centrifuge tube containing 8 ml of room-temperature culture medium, mixing gently.
- 6. Centrifuge the mixture at 300 x g for 3 minutes to separate the cells and carefully discard the supernatant containing residual freezing medium. Optionally, skip centrifugation but remove any remaining freezing medium after 24 hours.
- 7. Gently resuspend the cell pellet in 10 ml of fresh culture medium. For adherent cells, divide the suspension between two T25 culture flasks; for suspension cultures, transfer all the medium into one T25 flask to promote effective cell interaction and growth.
- 8. Adhere to established subculture protocols for continued growth and maintenance of the cell line, ensuring reliable experimental outcomes.

Quality control / Genetic profile / HLA

Sterility

Mycoplasma contamination is excluded using both PCR-based assays and luminescence-based mycoplasma detection methods.

To ensure there is no bacterial, fungal, or yeast contamination, cell cultures are subjected to daily visual inspections.