

SCC-25 Cells | 300607

General information

DescriptionSCC-25 is an epithelial-like cell line derived from the tongue of a patient with squamous cell carcinoma.OrganismHumanTissueTongueDiseaseSquamous cell carcinomaSynonymsSCC 25, SCC25, hSCC-25

Characteristics

Age70 yearsGenderMaleEthnicityEuropeanMorphologyEpithelial-likeGrowth propertiesAdherent

Identifiers / Biosafety / Citation

Citation SCC-25 (Cytion catalog number 300607)

Biosafety level 1

Expression / Mutation

Protein epidermal keratins, low levels of involucrin expression

Tumorigenic Yes, in nude mice.

Handling



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Culture Medium	DMEM:Ham's F12, w: 3.1 g/L Glucose, w: 1.6 mM L-Glutamine, w: 15 mM HEPES, w: 1.0 mM Sodium pyruvate, w: 1.2 g/L NaHCO3 (Cytion article number 820400a)
Medium supplements	Supplement the medium with 20% FBS
Passaging solution	Accutase
Subculturing	Remove the old medium from the adherent cells and wash them with PBS that lacks calcium and magnesium. For T25 flasks, use 3-5 ml of PBS, and for T75 flasks, use 5-10 ml. Then, cover the cells completely with Accutase, using 1-2 ml for T25 flasks and 2.5 ml for T75 flasks. Let the cells incubate at room temperature for 8-10 minutes to detach them. After incubation, gently mix the cells with 10 ml of medium to resuspend them, then centrifuge at 300xg for 3 minutes. Discard the supernatant, resuspend the cells in fresh medium, and transfer them into new flasks that already contain fresh medium.
Freeze medium	CM-1 (Cytion catalog number 800100)



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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.
- 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.



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STR profile Amelogenin: x,x

 $\mathbf{CSF1PO}:10$ **D13S317**: 13 **D16S539**: 11,12 **D5S818**: 12 **D7S820**: 12 **TH01**: 8 **TPOX**: 8,12 **vWA**: 17,19 **D3S1358**: 17 **D21S11**: 30 **D18S51**: 16 **Penta E**: 14,15 **Penta D**: 13 **D8S1179**: 13 **FGA**: 20,24 **D6S1043**: 13,18 **D2S1338**: 17,19

D12S391: 17 **D19S433**: 13,14