



General information

DescriptionThe cells express receptors for bombesin at up to 6000 sites per cell.OrganismHumanTissueDuodenumDiseaseAdenocarcinomaSynonymsHUTU 80, Hutu 80, HUTU-80, Hutu-80, HUTU80, Hutu80, Hutu80

Characteristics

Age53 yearsGenderMaleEthnicityCaucasianMorphologyEpithelial-likeGrowth propertiesAdherent

Identifiers / Biosafety / Citation

Citation HuTu-80 (Cytion catalog number 300218)

Expression / Mutation

Biosafety level

Receptors
expressedbombesinAntigen
expressionBlood Type B, Rh+IsoenzymesPGM3, 1-2, PGM1, 1-2, ES-D, 1, Me-2, 2, AK-1, 1, GLO-1, 2, G6PD, B, Phenotype Frequency Product: 0.0017



HuTu-80 Cells | 300218

Yes, in nude mice. Forms well differentiated papillary adenocarcinoma, (grade I)
Aneuploid
(P12) hypodiploid to hyperdiploid with modal number = 46
EMEM, w: 2 mM L-Glutamine, w: 1.5 g/L NaHCO3, w: EBSS, w: 1 mM Sodium pyruvate, w: NEAA (Cytion article number 820100c)
Supplement the medium with 10% FBS
Accutase
26 to 30 hours
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.
A ratio of 1:2 to 1:5 is recommended
1 to 2 x 10^4 cells/cm^2 is recommended
2 to 3 times per week
Fast
CM-1 (Cytion catalog number 800100) or CM-ACF (Cytion catalog number 806100)



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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.





STR profile Amelogenin: x,y

CSF1PO: 11,13
D13S317: 8,11
D16S539: 10,11
D5S818: 12,13
D7S820: 9,11
TH01: 7
TPOX: 9,11
vWA: 16,18
D3S1358: 15,17
D21S11: 31,32.2
D18S51: 14,17
Penta E: 12,18
Penta D: 2.2
D8S1179: 15
FGA: 21,23