Product sheet

RT-112 Cells | 300324

General information

Description	This cell line was established by Dr. Carol Rigby, St. Paul?S Hospital, London as described by Benham et al. in 1976 from a human bladder carcinoma.
Organism	Human
Tissue	Bladder
Disease	Carcinoma
Synonyms	RT 112, RT112

Characteristics

Age	Unspecified
Gender	Female
Ethnicity	Caucasian
Morphology	Epithelial-like
Growth properties	Adherent

Regulatory Data

Citation	RT-112 (Cytion catalog number 300324)
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_1670

Biomolecular Data

Protein expression	p53 positive, Cytokeratine (4),5,(6), 7, 8, 13, 17, 18, 19, Desmoplakin

Isoenzymes	Yes, in nude mice
MSI-status	Stable (MSS)

Handling

Culture Medium	RPMI 1640, w: 2.0 mM stable Glutamine, w: 2.0 g/L NaHCO3 (Cytion article number 820700a)
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.
Split ratio	A ratio of 1:4 to 1:8 is recommended
Seeding density	Start culture at 2 to 3 x 10^4 cells/cm^2 and continue with a seeding density of 1 x 10^4 cells/cm^2.
Fluid renewal	2 to 3 times per week
Freeze medium	As a cryopreservation medium, use complete growth medium (including FBS) + 10% DMSO for adequate post-thaw viability, or CM-1 (Cytion catalog number 800100), which includes optimized osmoprotectants and metabolic stabilizers to enhance recovery and reduce cryo-induced stress.

Quality Control & Molecular Analysis

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,y **CSF1PO**: 10,11 **D13S317**: 13,14 **D16S539**: 11,13 **D5S818**: 10,13 **D7S820**: 12,11 **TH01**: 7 **TPOX**: 8,11 **vWA**: 14,17 **D3S1358**: 15 **D21S11**: 27,3 **D18S51**: 15 **Penta E**: 12,16 **Penta D**: 10,11 **D8S1179**: 13,15 **FGA**: 23
HLA alleles	**A***: '26:01:01 **B***: '27:05:02 **C***: '01:02:01 **DRB1***: '01:01:01 **DQA1***: '01:01:01 **DQB1***: '05:01:01 **DPB1***: '01:01:01 **E**: '01:01:01