

Product sheet

HROG10 | 300935

General information

Description	Cell line derived from a patient with glioblastoma (PD Dr. Michael Linnebacher)
Organism	Human
Tissue	Brain, Glioma
Disease	Glioblastoma (WHO grade IV)

Characteristics

Age	74 years
Gender	Male
Ethnicity	German
Morphology	Epithelial cells, adherent, growing in monolayers
Growth properties	Highly proliferative

Identification

Citation	HROG10 (ATCC CCL-222) Cytion 300935
Biosafety level	1
NCBI_TaxID	9606
CellSaurusAccession	CVCL_4U43

Antigen expression and mutational profile

Antigen expression	HLA-A02 +, HLA-B*08:01 + HLA-E +, HLA-G -, MIC A +, MIC-B -, ICAM-1 +, GFAP +, CD133 +, CD133 +, S-100+, GBM +, BT
Mutational profile	TP53 wt, PTENwt, 4q12 (PDGFRA) loss

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HEK293T

Culture Medium DMEM:Ham's F12 (1:1), w: 3.1 g/L β -mercaptoethanol, w: 2.5 mM L-glutamine, w: 15 mM HEPES, w: 0.5 mM $\text{CaCl}_2 \cdot \text{H}_2\text{O}$, w: 1.2 g/L NaHCO_3 820400a)

Supplements β -mercaptoethanol 10% FBS

Dissociation Reagent β -mercaptoethanol

Subculturing HEK293T cells are cultured in DMEM:Ham's F12 (1:1) supplemented with 10% FBS and 100 U/ml penicillin, 100 U/ml streptomycin, and 100 U/ml nystatin. Cells are grown in T25 or 35 cm² flasks. For subculturing, cells are trypsinized and resuspended in DMEM:Ham's F12 (1:1) supplemented with 10% FBS and antibiotics.

Seeding density 1×10^4 cells/cm²

Fluid renewal 3-5 days

Freeze medium DMEM:Ham's F12 (1:1) supplemented with 50% FBS + 40% DMSO, CM-1 (Cytion 800100), and 100 U/ml penicillin, 100 U/ml streptomycin, and 100 U/ml nystatin.

- Thawing and Culturing Cells**
1. Thaw the cells in a 37°C water bath and transfer them to a 15 ml centrifuge tube.
 2. Centrifuge the cells at 300 x g for 3 minutes and resuspend them in DMEM:Ham's F12 (1:1) supplemented with 10% FBS and antibiotics.
 3. Seed the cells into a 15 cm² flask and incubate them for 24 hours.
 4. After 24 hours, replace the medium with DMEM:Ham's F12 (1:1) supplemented with 10% FBS and antibiotics.
 5. Seed the cells into a 15 cm² flask and incubate them for 24 hours.
 6. After 24 hours, replace the medium with DMEM:Ham's F12 (1:1) supplemented with 10% FBS and antibiotics.
 7. Seed the cells into a 15 cm² flask and incubate them for 24 hours.
 8. After 24 hours, replace the medium with DMEM:Ham's F12 (1:1) supplemented with 10% FBS and antibiotics.

Incubation Atmosphere 37°C, 5% CO₂, humidified

