

HROG17 | 300938

General information

Description	Human glioblastoma cell line (PD Dr. Michael Linnebacher)
Organism	Human
Tissue	Brain, Glioblastoma, Glioblastoma
Disease	Glioblastoma (WHO IV)

Cell characteristics

Age	70 years
Gender	Male
Ethnicity	German
Morphology	Epithelial cells, highly proliferative, highly invasive
Growth properties	Highly proliferative

Cell line identification

Citation	HROG17 (Cytion 300938)
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_4U45

Antigen expression and mutational profile

Antigen expression	HLA-A02+, HLA-B*08:01+, HLA-E+, HLA-G+, MIC A+, MIC-B-, ICAM-1+, GFAP+, S-100+, GBM+, BTSC+
Mutational profile	IDH 1 & 2 wt, TP53wt, K-Ras wt, B-RAFWt, PTENR130+

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**Thawing and
Culturing Cells**

1. **Thawing:** Thaw the vial quickly in a water bath at 37°C. Transfer the cells to a pre-warmed tissue culture flask containing 5 ml of complete growth medium. Gently mix the cells by pipetting up and down. Incubate the cells in a humidified CO₂ incubator at 37°C.
2. **Seeding:** Seed the cells into a 25 cm² tissue culture flask containing 50 ml of complete growth medium. The seeding density is approximately 1.5 x 10⁶ cells per flask.
3. **Medium Change:** After 24 hours, replace the medium with fresh complete growth medium. The medium should be changed every 3-4 days.
4. **Passaging:** When the cells reach 70-80% confluency, passage them into a new flask. Use trypsin-EDTA to detach the cells.
5. **Freezing:** For long-term storage, freeze the cells in a freezing medium (90% FBS, 10% serum-free medium) in a 1 ml vial. Store at -80°C.
6. **Thawing:** Thaw the vial quickly in a water bath at 37°C. Transfer the cells to a pre-warmed tissue culture flask containing 5 ml of complete growth medium. Gently mix the cells by pipetting up and down. Incubate the cells in a humidified CO₂ incubator at 37°C.
7. **Seeding:** Seed the cells into a 25 cm² tissue culture flask containing 50 ml of complete growth medium. The seeding density is approximately 1.5 x 10⁶ cells per flask.
8. **Medium Change:** After 24 hours, replace the medium with fresh complete growth medium. The medium should be changed every 3-4 days.

**Incubation
Atmosphere**

37°C, 5% CO₂, humidified

Flask Coating

Not required

**Freezing
Procedure**

Freeze the cells in a freezing medium (90% FBS, 10% serum-free medium) in a 1 ml vial. Store at -80°C.

**Shipping
Conditions**

Ship the cells in a freezing medium (90% FBS, 10% serum-free medium) in a 1 ml vial. Store at -80°C.

**Storage
Conditions**

Store the cells in a freezing medium (90% FBS, 10% serum-free medium) in a 1 ml vial. Store at -150 to 196 K.

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Sterility

The cells are supplied as a suspension in complete growth medium. The medium is sterile and contains no antibiotics. The cells are not tested for mycoplasma contamination. The cells are not tested for endotoxin contamination. The cells are not tested for viral contamination.

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██████ HLA

A*: '11:01:01, '66:01:01
B*: 14:02:01, 40:02:01
C*: '01:02:01, '08:02:01
DRB1*: '01:02:01, '12:01:01
DQA1*: '01:01:02, '05:05:01
DQB1*: '03:01:01, '05:01:01
DPA1*: 0,04375, 0,084027778
DPB1*: 04:01:01, 11:01:01
E: 01:01, 01:03