

Product sheet

HROC40 | 300822

General information

Description	Cell line derived from a 69-year-old male patient with a primary tumor of the colon (PD Dr. Michael Linnebacher) [1].
Organism	Human
Tissue	Colon, UICC IIIa
Disease	Colorectal adenocarcinoma, TNM T3N1M0R0L1V1, G3, Lk(n) + 2, Σ Lk(n) 18

Cell line characteristics

Age	69 years
Gender	Male
Ethnicity	German
Morphology	Epithelial cells
Growth properties	Adherent

Identification and documentation

Citation	HROC40 (Cell line Cytion 300822)
Biosafety level	1
NCBI_TaxID	9606
CellSaurusAccession	CVCL_1G01

Genetic and molecular characteristics

Protein expression	CD326+, CD44+, CD15+, CD71+, CD73+, CD274+, CD47+, CD54+, CD95+, CD276+, CD133-, CD66acdewweak, IDO+, cFLIP+, MHC-I+, MHCIIweak, IFN-γ, EpCAM+
Antigen expression	

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Tumorigenic	Yes, tumorigenic in nude mice and in SCID mice
Viruses	HEp-2 is immortalized by SV40, JC/BK, HBV, HCV, HIV.
Ploidy status	Diploid
MSI-status	MSS
Mutational profile	P53G266e, APCwt, K-RasG13D, mt13, N-Raswt, H-Raswt, PIK3CAwt, B-Rafwt
HEp-2 HROC40	
Culture Medium	DMEM:Ham's F12 (1:1), w: 3.1 g/L Glucose, w: 2.5 mM L-Glutamine, w: 15 mM HEPES, w: 0.5 mM Sodium Pyruvate, w: 1.2 g/L NaHCO ₃ (820400a)
Supplements	HEp-2 requires 10% FBS
Dissociation Reagent	Trypsin
Subculturing	HEp-2 cells are grown in 75 cm ² flasks. When cells reach 80-90% confluency, they are trypsinized and seeded into new flasks at a density of 3 x 10 ⁴ cells per flask.
Seeding density	5x10 ⁴ cells per flask
Fluid renewal	3-5 times per week
Post-Thaw Recovery	HEp-2
Freeze medium	HEp-2 cells are frozen in DMEM:Ham's F12 (1:1) + 10% FBS + 10% DMSO. The freezing medium is added to the cells at a density of 1 x 10 ⁶ cells per ml.

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**Thawing and
Culturing Cells**

1. 将细胞冻存管放入37°C水浴中快速解冻，解冻后将细胞悬液转入含有10 mL完全培养基的培养瓶中，轻轻混匀，置于37°C CO₂培养箱中培养。
2. 待细胞贴壁后，更换新鲜完全培养基，将细胞置于37°C CO₂培养箱中继续培养。
3. 待细胞密度达到80%左右时，将细胞悬液转入含有10 mL完全培养基的培养瓶中，轻轻混匀，置于37°C CO₂培养箱中培养。
4. 待细胞密度达到80%左右时，将细胞悬液转入含有10 mL完全培养基的培养瓶中，轻轻混匀，置于37°C CO₂培养箱中培养。
5. 待细胞密度达到80%左右时，将细胞悬液转入含有10 mL完全培养基的培养瓶中，轻轻混匀，置于37°C CO₂培养箱中培养。
6. 待细胞密度达到80%左右时，将细胞悬液转入含有10 mL完全培养基的培养瓶中，轻轻混匀，置于37°C CO₂培养箱中培养。
7. 待细胞密度达到80%左右时，将细胞悬液转入含有10 mL完全培养基的培养瓶中，轻轻混匀，置于37°C CO₂培养箱中培养。
8. 待细胞密度达到80%左右时，将细胞悬液转入含有10 mL完全培养基的培养瓶中，轻轻混匀，置于37°C CO₂培养箱中培养。

**Incubation
Atmosphere**

37°C, 5% CO₂, 饱和湿度

Flask Coating

无需涂层

**Freezing
Procedure**

将细胞悬液按1:10比例加入含有10% FBS的完全培养基中，轻轻混匀，置于-80°C冰箱中冻存。

**Shipping
Conditions**

将细胞冻存管放入干冰中，置于-80°C冰箱中保存。

**Storage
Conditions**

将细胞冻存管放入干冰中，置于-80°C冰箱中保存。

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Sterility

本产品经过严格的质量控制，确保无菌。本产品不含任何抗生素，适用于PCR等下游应用。

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