

Product sheet

HROC43 | 300823

General information

Description	Cell line derived from a 72-year-old male patient with a primary tumor of the colon (PD Dr. Michael Linnebacher) [1].
Organism	Human
Tissue	Colon, UICC IIIb
Disease	Colorectal adenocarcinoma, TNM T3N2M0R0L1V0, G3, Lk(n) + 30, Σ Lk(n) 36

Cell line characteristics

Age	72 years
Gender	Male
Ethnicity	German
Morphology	Epithelial cells
Growth properties	Adherent

Cell line identification

Citation	HROC43 (Cytion 300823)
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_1D20

Cell line authentication

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

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HEp-2 HROC43 | 300823

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	APCQ1429*, p53S241fs*5, K-Rasmut, N-Raswt, H-Raswt, PIK3CAwt, B-Rafwt

HEp-2

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
Doubling time	27 hours
Subculturing	HEp-2 cells are grown in DMEM:Ham's F12 (1:1) supplemented with 10% FBS. Cells are passaged by trypsinization into T25, 75-100 cm ² flasks or 3-5 ml microcentrifuge tubes. Cells are grown in DMEM:Ham's F12 (1:1) supplemented with 10% FBS.
Seeding density	2 x 10 ⁴ cells/cm ²
Fluid renewal	3-5 times per week
Post-Thaw Recovery	HEp-2 cells
Freeze medium	HEp-2 cells are frozen in DMEM:Ham's F12 (1:1) supplemented with 10% FBS + 10% DMSO. Cells are frozen in DMEM:Ham's F12 (1:1) supplemented with 10% FBS + 10% DMSO.

