

HCT116-GFP | 305649

General information

Description	HCT116-GFP is a cell line derived from HCT116 cells, which are a human colorectal adenocarcinoma cell line. The cells are immortalized and express GFP (Green Fluorescent Protein) under the control of the CMV promoter. HCT116-GFP cells are used for various applications, including cell biology, molecular biology, and drug screening. The cells are easy to grow and maintain, and the GFP expression allows for easy visualization and quantification of the cells. HCT116-GFP cells are also used for studying the effects of various treatments on cell growth and survival. The cells are sensitive to many chemotherapeutic agents, making them a valuable model for studying cancer drug resistance. Characteristics: HCT116-GFP cells are epithelial, adherent, and grow in monolayers. They are highly proliferative and have a doubling time of approximately 24 hours. The cells are also highly sensitive to oxidative stress and DNA damage.
Organism	Human
Tissue	Colon
Disease	Colorectal adenocarcinoma
Synonyms	HCT-116, HCT.116, HCT_116, HCT116, HCT116wt, HCT-116/P, HCT-116/parental, CoCL2

Cell line characteristics

Age	48 years
Gender	Male
Ethnicity	White
Growth properties	Epithelial, adherent, monolayer

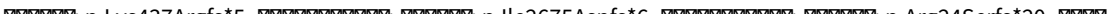
Cell line identification

Citation	HCT116-GFP (Cytion 305649)
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_0291
GMO Status	GMO-S1: HCT116-GFP cells are derived from HCT116 cells, which are a human colorectal adenocarcinoma cell line. The cells are immortalized and express GFP (Green Fluorescent Protein) under the control of the CMV promoter.

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Antigen expression ZsGreen1 ()

Mutational profile  p.Lys437Argfs*5,   p.Ile2675Aspfs*6,   p.Arg24Serfs*20,  
 p.Met1470Cysfs*22,   p.Asn1700Thrfs*9,   p.Gly13Asp,   p.His

XXXXXXXXXX

Culture Medium	McCoys 5a, w: 3.0 g/L α -MEM, w: 0.05 α -MEM, w: 2.0 mM α -MEM, w: 2.2 g/L NaHCO ₃ (0.05 α -MEM Cytion 820200a)
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Supplements 10% FBS

Dissociation Reagent 

Doubling time 27 ; 17.1 ; 22 ; 25.02 ; 36 ; 18.14 ± 0.051 ; 25–48 ; 17.4 ; 21

Seeding density

Freeze medium α -MEMEM, 10% FBS, 100 ng/ml bFGF, 100 ng/ml TGF- β 1 + 10% DMSO α -MEMEM, 10% FBS, 100 ng/ml bFGF, 100 ng/ml TGF- β 1

Thawing and Culturing Cells

1. 取出凍存管後，將管口封住，在冰上放置 1 分鐘，然後將管口封住，在冰上放置 1 分鐘，然後將管口封住，在冰上放置 1 分鐘。
2. 將凍存管放入 37°C 水浴中，輕輕搖動，直到冰塊完全融化。將細胞懸液轉移至含有 10 mL 完全培養基的培養瓶中。
3. 將培養瓶放入 37°C 培養箱中，靜置 24 小時，讓細胞貼壁。
4. 24 小時後，檢查細胞貼壁情況。如果細胞貼壁良好，則更換新鮮培養基。
5. 如果細胞貼壁不良，則將細胞懸液轉移至含有 10 mL 完全培養基的培養瓶中，靜置 24 小時。
6. 24 小時後，檢查細胞貼壁情況。如果細胞貼壁良好，則更換新鮮培養基。
7. 如果細胞貼壁不良，則將細胞懸液轉移至含有 10 mL 完全培養基的培養瓶中，靜置 24 小時。

Product sheet

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**Incubation
Atmosphere** 37°C, 5% CO₂, humidified air

**Shipping
Conditions** Cells are shipped in a dry ice container. The container must be kept at -78°C.

**Storage
Conditions** Cells should be stored at -150 to -196 °C in liquid nitrogen. The storage time is unlimited.

Cells are supplied as a suspension in DMEM/F12 medium.