



Leibniz Institute  
DSMZ-German Collection  
of Microorganisms  
and Cell Cultures GmbH



# HCT-116

ACC 581

**Cell line:**  
HCT-116

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**DSMZ no.:**  
ACC 581

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**Species:**  
human (*Homo sapiens*)

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**Cell type:**  
colon carcinoma

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**Origin:**  
established from the primary colon carcinoma of an adult man; cells were described in the literature to carry a RAS mutation in codon 13 and to be tumorigenic in nude mice

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**Reference(s):**  
[14406](#), [14405](#)

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**Biosafety level:**  
1

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**Permissions  
and  
restrictions:**

**A**

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**DSMZ Cell Culture Data:**

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**Morphology:**

epithelial-like small cells growing as monolayer; [image](#);  
[image](#)

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**Medium:**

90% McCoy's 5A + 10% h.i. FBS + 2 mM L-glutamine  
(alternatively Dulbecco's MEM with high glucose)

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**Subculture:**

seed out at ca.  $1 \times 10^6$  cells/80 cm<sup>2</sup>; split saturated culture  
1:3 to 1:6 about 2-3 x per week using trypsin/EDTA; in  
confluent cultures with high densities, cells may detach  
spontaneously

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**Incubation:**

at 37 °C with 5% CO<sub>2</sub>

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**Doubling time:**

ca. 25-40 hours

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**Harvest:**

cell harvest of ca.  $10\text{-}20 \times 10^6$  cells/80 cm<sup>2</sup>

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**Storage:**

frozen with 70% medium, 20% FBS, 10% DMSO

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**DSMZ Scientific Data:**

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**Mycoplasma:**

negative in microbiological culture, PCR assays

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**Immunology:**

To inquire about expression of EpCAM and intermediate  
filaments, contact [hilmar.quentmeier@dsmz.de](mailto:hilmar.quentmeier@dsmz.de).

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**Fingerprint:**

## fluorescent nonaplex PCR of short tandem repeat markers revealed a unique DNA profile

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### Species:

confirmed as human by cytogenetics and species PCR

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### Cytogenetics:

human near-diploid karyotype with 3% polyploidy - 45(44-46)<2n>X/XY, add(10)(q24-26), der(16)t(8;16)(q13;p13), der(18)t(17;18)(q13-21;p11.3) - resembles published karyotypes

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### Viruses:

PCR: EBV -, HBV -, HCV -, HIV -, HTLV-I/II -, MLV -, SMRV -

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### Supplied as:

Delivery form	Prices
Frozen culture	400,- €
Growing culture (please inquire for exact delivery time)	800,- €
DNA isolated from cell line (25 µg)	500,- €
DNA isolated from cell line (5 µg)	120,- €

[see price list](#)

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[Print data sheet](#)

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