



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



HCC-44

ACC 534

Cell line:
HCC-44

DSMZ no.:
ACC 534

Species:
human (*Homo sapiens*)

Cell type:
non-small cell lung carcinoma

Origin:
established from the lung of a 54-year-old woman with
non-small cell lung cancer of the adenocarcinoma type

Reference(s):
[15046](#), [14821](#)

Biosafety level:
1

Permissions
and
restrictions:
[A](#)

DSMZ Cell Culture Data:

Morphology:
adherent epitheloid cells growing as monolayer; [image](#);
[image](#)

Medium:
90% RPMI 1640 + 10% h.i. FBS

Subculture:
seed out at ca. $1-2 \times 10^6$ cells/80 cm²; split confluent
culture 1:3 to 1:5 twice a week using trypsin/EDTA

Incubation:
at 37 °C with 5% CO₂

Doubling time:
ca. 30 hours

Harvest:
cell harvest of about $4-6 \times 10^6$ cells/175 cm²

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

DSMZ Scientific Data:

Mycoplasma:
contamination was eliminated with sparfloxacin, then
negative in microbiological culture and PCR assays

Immunology:
To inquire about expression of EpCAM and intermediate
filaments, contact hilmar.quentmeier@dsmz.de.

Fingerprint:

multiplex PCR of minisatellite markers revealed a unique DNA profile

Species:

confirmed as human by cytogenetics

Cytogenetics:

human flat-moded hyperpentaploid karyotype with 8% polyploidy - 120-124<5n>XX, +1, +1, +3, +3, -4, -4, -5, +7, +7, +7, -9, -9, -10, +11, -18, -21, -21, +22, +22, +22, +7-14mar, der(1)t(X;1)(q11;p11)x2, del(1)(q21)x2, i(1q), t(1;3)(p11;q11), add(2)(q?11), del(2)(p11), add(3)(q28), add(3)(p11), i(5p), add(8)(p2?), add(8)(q2?), add(8)(q24), der(9;19)(q10;q10)x2, add(10)(q2?5), add(11)(p13), der(11)add(11)(p1?1)add(11)(q25), add(12)(p13), add(16)(p11), add(17)(p1?2), add(18)(p11), del(20)(q12)x1-2, add(20)(q13)x2 - 2-6 dmin present in 80% cells

Viruses:

PCR: EBV -, HBV -, HCV -, HIV-1 -, HIV-2 -, HTLV-I/II -, MLV -, SMRV -

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,- €

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